

# LUXDATOR

## LED DRIVERS

RIGHT SOLUTION FOR YOUR LED LIGHTING

# OUTDOOR

# CONSTANT CURRENT



## WHO WE ARE?

LUXATOR is an international company that manufactures and sells LED drivers and power supply for LED lights, and also works in the field of lighting technology and specializes in energy-efficient components and systems solutions for lighting and lighting control.

LUXATOR LED drivers are designed to create high-quality, energy-efficient professional lighting systems with a long life.

We offer a wide range of LED drivers for both outdoor and indoor lighting as well as a great range of managed and unmanaged drivers, which can be used to create both simple local lighting systems as well as large-scale intelligent lighting systems.

Our independence and competence in the sphere of lighting components, electronics and control systems are used to support our customers as they provide a true freedom of choice.

Our customer base consists of lighting manufacturers, electrical and lighting engineering designers, contractors and specialists in purchasing. LUXDATOR is an independent partner that strives for long-term co-operation with its clients.

## КТО МЫ?

LUXDATOR — это международная компания, которая производит и реализует LED драйверы и питание для светодиодов, а также работает в сфере технологий освещения и специализируется на энергоэффективных компонентах и решениях систем освещения и управления освещением.

LED драйверы LUXDATOR разработаны для создания высококачественных, энергоэффективных профессиональных осветительных установок с длительным сроком службы.

Мы предлагаем широкий ассортимент LED драйверов как для наружного, так и для внутреннего освещения.

А также большой выбор управляемых и не управляемых драйверов, с помощью которых можно создать как простые локальные осветительные системы, так и масштабные интеллектуальные системы освещения.

Наша независимость и компетентность в сфере осветительных компонентов, электроники и систем управления служат на пользу нашим клиентам, поскольку обеспечивают истинную свободу выбора.

Наша клиентская база — это производители светильников, дизайнеры электрических и осветительных изделий, подрядчики и специалисты по закупкам. Компания LUXDATOR является независимым партнером, который стремится к долгосрочному сотрудничеству с клиентами.

## KDO JSME?

LUXDATOR je mezinárodní společnost, která vyrábí a prodává LED trať a napájení pro světelné diody a rovněž pracuje v oblasti technologií osvětlení a specializuje se na energeticky efektivní komponenty a řešení systémů osvětlení a ovládní osvětlení.

LED trať LUXDATOR jsou určeny k vytvoření vysoce kvalitních, energeticky efektivních profesionálních systémů osvětlení s dlouhou životností.

Nabízíme široký sortiment LED trať jak pro venkovní, tak pro vnitřní osvětlení a také velkou škálu řízených a neřízených LED trať, s jejichž pomocí lze vytvořit jak jednoduché lokální systémy osvětlení, tak rozsáhlé inteligentní systémy osvětlení.

Naši nezávislost a kompetentnost ve sféře osvětlovacích komponentů, elektroniky a řídicích systémů využíváme ve prospěch našich klientů, jelikož poskytují skutečnou svobodu volby.

Naše zákaznická základna, to jsou výrobci svítidel, designéři elektrické a osvětlovací techniky, dodavatelé a specialisté na výkup. Společnost LUXDATOR je nezávislým partnerem, který usiluje o dlouhodobou spolupráci s klienty.

# Content

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## **Constant Current**

PE-P050CC .....	4-5
PE-P060CC .....	6-7
PE-P075CC .....	8-9
PE-P100CC .....	10-11
PE-P120CC .....	12-13
PE-P150CC .....	14-15
PF-P250CC .....	16-17
PF-P320CC .....	18-19
PF-P400CC .....	20-21

## **Programmable**

PE-P075CC .....	22-23
PE-P090CC .....	24-25
PE-P096CC .....	26-27
PE-P120CC .....	28-29
PE-P150CC .....	30-31
PE-F200CC .....	32-33
PF-P250CC .....	34-35
PF-P320CC .....	36-37
PF-P400CC .....	38-39

## **Programmable Narrow**

PE-F120CC .....	40-41
PE-F180CC .....	42-43
PE-F200CC .....	44-45
PE-F250CC .....	46-47

## **Frigid Climate**

PE-P060CC .....	48-49
PE-P075CC .....	50-51
PE-P090CC .....	52-53
PE-F120CC .....	54-55

## **Round**

AR-P100CC .....	56-57
AR-P150CC .....	58-59
AR-P200CC .....	60-61

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 90.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P050CC-C035-S-ND	90 ~ 305	50	85-142	350	90,0	UL CE ENEC CB
PE-P050CC-C035-S-DM	90 ~ 305	50	85-142	350	90,0	UL CE ENEC CB
PE-P050CC-C070-S-ND	90 ~ 305	50	43-72	700	89,0	UL CE ENEC CB
PE-P050CC-C070-S-DM	90 ~ 305	50	43-72	700	89,0	UL CE ENEC CB
PE-P050CC-C105-S-ND	90 ~ 305	50	28-48	1050	88,0	UL CE ENEC CB
PE-P050CC-C105-S-DM	90 ~ 305	50	28-48	1050	88,0	UL CE ENEC CB
PE-P050CC-C140-S-ND	90 ~ 305	50	21-36	1400	87,0	UL CE ENEC CB
PE-P050CC-C140-S-DM	90 ~ 305	50	21-36	1400	87,0	UL CE ENEC CB

**Note:** ND means non-dimming model; DM means 0-10V dimmable

## ■ Specifications

Models		C035	C070	C105	C140	C210
Input	Input Voltage	90~305Vac				
	Input Frequency	47~63Hz				
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.				
	Input Current	0.70Amax@110Vac & Full-Load; 0.35Amax@220Vac & Full-Load				
	THD	<15%@60-100%load, refer to THD vs. Load curve.				
	Inrush Current	65Amax@230Vac 25°C Cold Start				
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1				
Output	Rated Power	50W	50W	50W	50W	50W
	Rated Current	350mA	700mA	1050mA	1400mA	2100mA
	Output Voltage	85-142Vdc	43-72Vdc	28-48Vdc	21-36Vdc	14-24Vdc
	Current Accuracy	±5%lo				
	Ripple Current <sup>[2]</sup>	Ip-p:3% LED Load 60%~100% Load				
	Setup Time	1.2s max				
	Output Overshoot	10%lo max & LED Load				
Protection	Output Over Voltage	163-180 Vdc	82-91 Vdc	57-64 Vdc	44-50 Vdc	28-31 Vdc
	Over Temperature	Decrease output current until over temperature state is removed				
	Short Circuit	Auto recovery. The output recovers when short is removed.				
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>				
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH				
Others	MTBF	≥321,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)				
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45°C ambient temperature				
	Dimensions	Inch(L x W x H)			4.88x2.66x1.48	
		Millimeter(L x W x H)			124.0x67.5x37.5	
	Net Weight	680g				

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 91.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P060CC-C035-S-ND	90 ~ 305	60	103-171	350	90,0	CE CCC ENEC CB
PE-P060CC-C035-S-DM	90 ~ 305	60	103-171	350	90,0	CE FCC UL
PE-P060CC-C070-S-ND	90 ~ 305	60	51-86	700	90,0	CE CCC ENEC CB
PE-P060CC-C070-S-DM	90 ~ 305	60	51-86	700	90,0	CE FCC UL
PE-P060CC-C105-S-ND	90 ~ 305	60	34-57	1050	89,0	CE CCC ENEC CB
PE-P060CC-C105-S-DM	90 ~ 305	60	34-57	1050	89,0	CE FCC UL
PE-P060CC-C140-S-ND	90 ~ 305	60	26-43	1400	88,0	CE CCC ENEC CB
PE-P060CC-C140-S-DM	90 ~ 305	60	26-43	1400	88,0	CE FCC UL
PE-P060CC-C210-S-ND	90 ~ 305	60	17-29	2100	88,0	CE CCC ENEC CB
PE-P060CC-C210-S-DM	90 ~ 305	60	17-29	2100	88,0	CE FCC UL
PE-P060CC-C280-S-ND	90 ~ 305	60	13-21	2800	88,0	CE CCC ENEC CB
PE-P060CC-C280-S-DM	90 ~ 305	60	13-21	2800	88,0	CE FCC UL

**Note:** ND means non-dimming model; DM means 0-10V dimmable

## ■ Specifications

Items		Specification		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	Input Current	0.90Amax@110Vac & Full-Load; 0.45Amax@220Vac & Full-Load		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A²s@230Vac, 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Output Voltage	110%Vomax		
	Current Accuracy	±5%Io		
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED 60%-100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%Io		
Protection	Output Over Voltage	110% Vomax		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C~+70°C 10%RH ~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C~+85°C 5%RH ~100%RH		
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>		
	Case Temperature	90°Cmax <sup>[5]</sup>		
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48	
		Millimeter(L x W x H)	145.0x67.5x37.5	
Net Weight	720g			

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 91.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P075CC-C035-S-ND	90 ~ 305	75	128-214	350	91,0	UL CE ENEC CB
PE-P075CC-C035-S-DM	90 ~ 305	75	128-214	350	91,0	UL CE ENEC CB
PE-P075CC-C035-S-TS	90 ~ 305	75	128-214	350	91,0	UL CE ENEC CB
PE-P075CC-C070-S-ND	90 ~ 305	75	64-107	700	90,0	UL CE ENEC CB
PE-P075CC-C070-S-DM	90 ~ 305	75	64-107	700	90,0	UL CE ENEC CB
PE-P075CC-C070-S-TS	90 ~ 305	75	64-107	700	90,0	UL CE ENEC CB
PE-P075CC-C105-S-ND	90 ~ 305	75	43-72	1050	90,0	UL CE ENEC CB
PE-P075CC-C105-S-DM	90 ~ 305	75	43-72	1050	90,0	UL CE ENEC CB
PE-P075CC-C105-S-TS	90 ~ 305	75	43-72	1050	90,0	UL CE ENEC CB
PE-P075CC-C140-S-ND	90 ~ 305	75	32-54	1400	89,0	UL CE ENEC CB
PE-P075CC-C140-S-DM	90 ~ 305	75	32-54	1400	89,0	UL CE ENEC CB
PE-P075CC-C140-S-TS	90 ~ 305	75	32-54	1400	89,0	UL CE ENEC CB
PE-P075CC-C210-S-ND	90 ~ 305	75	22-36	2100	88,0	UL CE ENEC CB
PE-P075CC-C210-S-DM	90 ~ 305	75	22-36	2100	88,0	UL CE ENEC CB
PE-P075CC-C210-S-TS	90 ~ 305	75	22-36	2100	88,0	UL CE ENEC CB
PE-P075CC-C280-S-ND	90 ~ 305	75	16-27	2800	88,0	UL CE ENEC CB
PE-P075CC-C280-S-DM	90 ~ 305	75	16-27	2800	88,0	UL CE ENEC CB
PE-P075CC-C280-S-TS	90 ~ 305	75	16-27	2800	88,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable



## ■ Specifications

Models		C035	C070	C105	C140	C210	C280
Input	Input Voltage	90~305Vac					
	Input Frequency	47~63Hz					
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.					
	Input Current	0.90Amax@110Vac & Full-Load; 0.45Amax@220Vac & Full-Load					
	THD	<15%@60-100%load, refer to THD vs. Load curve.					
	Inrush Current	65Amax@230Vac 25°C Cold Start					
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1					
Output	Rated Power	75W	75W	75W	75W	75W	75W
	Rated Current	350mA	700mA	1050mA	1400mA	2100mA	2800mA
	Output Voltage	128-214 Vdc	64-107 Vdc	43-72 Vdc	32-54 Vdc	22-36 Vdc	16-27 Vdc
	Current Accuracy	±5%lo					
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED Load 60%-100% Load					
	Setup Time	1.2s max					
	Output Overshoot	10%lo					
Protection	Output Over Voltage	244-270 Vdc	123-136 Vdc	85-95 Vdc	65-75 Vdc	42-46 Vdc	35-38 Vdc
	Over Temperature	Decrease output current until over temperature state is removed					
	Short Circuit	Auto recovery. The output recovers when short is removed.					
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>					
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH					
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)					
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45°C ambient temperature					
	Dimensions	Inch(L x W x H)			5.71x2.66x1.48		
		Millimeter(L x W x H)			145.0x67.5x37.5		
	Net Weight	720g					

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 92.5%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P100CC-C035-S-ND	90 ~ 305	100	172-286	350	92,5	UL CE ENEC CB
PE-P100CC-C035-S-DM	90 ~ 305	100	172-286	350	92,5	UL CE ENEC CB
PE-P100CC-C035-S-TS	90 ~ 305	100	172-286	350	92,5	UL CE ENEC CB
PE-P100CC-C050-S-ND	90 ~ 305	100	120-200	500	92,0	UL CE ENEC CB
PE-P100CC-C050-S-DM	90 ~ 305	100	120-200	500	92,0	UL CE ENEC CB
PE-P100CC-C050-S-TS	90 ~ 305	100	120-200	500	92,0	UL CE ENEC CB
PE-P100CC-C070-S-ND	90 ~ 305	100	86-143	700	90,5	UL CE ENEC CB
PE-P100CC-C070-S-DM	90 ~ 305	100	86-143	700	90,5	UL CE ENEC CB
PE-P100CC-C070-S-TS	90 ~ 305	100	86-143	700	90,5	UL CE ENEC CB
PE-P100CC-C105-S-ND	90 ~ 305	100	57-95	1050	90,5	UL CE ENEC CB
PE-P100CC-C105-S-DM	90 ~ 305	100	57-95	1050	90,5	UL CE ENEC CB
PE-P100CC-C105-S-TS	90 ~ 305	100	57-95	1050	90,5	UL CE ENEC CB
PE-P100CC-C140-S-ND	90 ~ 305	100	43-72	1400	90,5	UL CE ENEC CB
PE-P100CC-C140-S-DM	90 ~ 305	100	43-72	1400	90,5	UL CE ENEC CB
PE-P100CC-C140-S-TS	90 ~ 305	100	43-72	1400	90,5	UL CE ENEC CB
PE-P100CC-C210-S-ND	90 ~ 305	100	28-48	2100	90,5	UL CE ENEC CB
PE-P100CC-C210-S-DM	90 ~ 305	100	28-48	2100	90,5	UL CE ENEC CB
PE-P100CC-C210-S-TS	90 ~ 305	100	28-48	2100	90,5	UL CE ENEC CB
PE-P100CC-C280-S-ND	90 ~ 305	100	21-36	2800	90,0	UL CE ENEC CB
PE-P100CC-C280-S-DM	90 ~ 305	100	21-36	2800	90,0	UL CE ENEC CB
PE-P100CC-C280-S-TS	90 ~ 305	100	21-36	2800	90,0	UL CE ENEC CB
PE-P100CC-C320-S-ND	90 ~ 305	100	19-31	3200	90,0	UL CE ENEC CB
PE-P100CC-C320-S-DM	90 ~ 305	100	19-31	3200	90,0	UL CE ENEC CB
PE-P100CC-C320-S-TS	90 ~ 305	100	19-31	3200	90,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable

## ■ Specifications

Models		C035	C050	C070	C140	C210	C280	C320	
Input	Input Voltage	90~305Vac							
	Input Frequency	47~63Hz							
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.							
	Input Current	1.3Amax@110Vac & Full-Load; 0.6Amax@220Vac & Full-Load							
	THD	<15%@60-100%load, refer to THD vs. Load curve.							
	Inrush Current	65Amax@230Vac 25°C Cold Start							
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1							
Output	Rated Power	100W	100W	100W	100W	100W	100W	100W	
	Rated Current	350mA	500mA	700mA	1400mA	2100mA	2800mA	3200mA	
	Output Voltage	172-286 Vdc	120-200 Vdc	86-143 Vdc	43-72 Vdc	28-48 Vdc	21-36 Vdc	19-31 Vdc	
	Current Accuracy	±5%lo							
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo LED Load60%~100% Load							
	Setup Time	1.2s max							
	Output Overshoot	10%lo max & LED Load							
Protection	Output Over Voltage	340-375 Vdc	238-262 Vdc	170-188 Vdc	85-95 Vdc	57-63 Vdc	42-47 Vdc	36-41 Vdc	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac							
	Over Temperature	Decrease output current until over temperature state is removed							
	Short Circuit	Auto recovery. The output recovers when short is removed.							
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>							
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH							
Others	MTBF	≥255,000 hours, measured at 110Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)							
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45°C ambient temperature							
	Dimensions	Inch(L x W x H)					7.64x2.66x1.48		
		Millimeter(L x W x H)					194.0x67.5x37.5		
	Net Weight	940g							

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P120CC-C035-S-ND	90 ~ 305	120	206-343	350	93,0	UL CE ENEC CB
PE-P120CC-C035-S-DM	90 ~ 305	120	206-343	350	93,0	UL CE ENEC CB
PE-P120CC-C035-S-TS	90 ~ 305	120	206-343	350	93,0	UL CE ENEC CB
PE-P120CC-C045-S-ND	90 ~ 305	120	160-266	450	92,5	UL CE ENEC CB
PE-P120CC-C045-S-DM	90 ~ 305	120	160-266	450	92,5	UL CE ENEC CB
PE-P120CC-C045-S-TS	90 ~ 305	120	160-266	450	92,5	UL CE ENEC CB
PE-P120CC-C070-S-ND	90 ~ 305	120	103-171	700	92,5	UL CE ENEC CB
PE-P120CC-C070-S-DM	90 ~ 305	120	103-171	700	92,5	UL CE ENEC CB
PE-P120CC-C070-S-TS	90 ~ 305	120	103-171	700	92,5	UL CE ENEC CB
PE-P120CC-C105-S-ND	90 ~ 305	120	68-114	1050	92,0	UL CE ENEC CB
PE-P120CC-C105-S-DM	90 ~ 305	120	68-114	1050	92,0	UL CE ENEC CB
PE-P120CC-C105-S-TS	90 ~ 305	120	68-114	1050	92,0	UL CE ENEC CB
PE-P120CC-C140-S-ND	90 ~ 305	120	51-86	1400	92,0	UL CE ENEC CB
PE-P120CC-C140-S-DM	90 ~ 305	120	51-86	1400	92,0	UL CE ENEC CB
PE-P120CC-C140-S-TS	90 ~ 305	120	51-86	1400	92,0	UL CE ENEC CB
PE-P120CC-C210-S-ND	90 ~ 305	120	34-57	2100	91,5	UL CE ENEC CB
PE-P120CC-C210-S-DM	90 ~ 305	120	34-57	2100	91,5	UL CE ENEC CB
PE-P120CC-C210-S-TS	90 ~ 305	120	34-57	2100	91,5	UL CE ENEC CB
PE-P120CC-C350-S-ND	90 ~ 305	120	20-34	3500	91,0	UL CE ENEC CB
PE-P120CC-C350-S-DM	90 ~ 305	120	20-34	3500	91,0	UL CE ENEC CB
PE-P120CC-C350-S-TS	90 ~ 305	120	20-34	3500	91,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable

## ■ Specifications

Models		C035	C045	C070	C105	C140	C210	C350	
Input	Input Voltage	90~305Vac							
	Input Frequency	47~63Hz							
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.							
	Input Current	1.50Amax@110Vac & Full-Load; 0.75Amax@220Vac & Full-Load							
	THD	<15%@60-100%load, refer to THD vs. Load curve.							
	Inrush Current	65Amax@230Vac 25°C Cold Start							
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1							
Output	Rated Power	120W	120W	120W	120W	120W	120W	120W	
	Rated Current	350mA	450mA	700mA	1050mA	1400mA	2100mA	3500mA	
	Output Voltage	343-206 Vdc	266-160 Vdc	171-103 Vdc	114-68 Vdc	86-51 Vdc	57-34 Vdc	34-20 Vdc	
	Current Accuracy	±5%lo							
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo LED Load60%~100% Load							
	Setup Time	1.2s max							
	Output Overshoot	10%lo							
Protection	Output Over Voltage	407-450 Vdc	316-349 Vdc	203-224 Vdc	135-150 Vdc	102-113 Vdc	67-75 Vdc	40-45 Vdc	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac							
	Over Temperature	Decrease output current until over temperature state is removed							
	Short Circuit	Auto recovery. The output recovers when short is removed.							
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>							
Environmental Condition	Storage Temperature	-40°C~+85°C; 5%RH~100%RH							
Others	MTBF	≥255,000 hours, measured at 110Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)							
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45°C ambient temperature							
	Dimensions	Inch(L x W x H)				7.64x2.66x1.48			
		Millimeter(L x W x H)				194.0x67.5x37.5			
	Net Weight	940g							

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P150CC-C035-S-ND	90 ~ 305	150	257-428	350	93,0	UL CE ENEC CB
PE-P150CC-C035-S-DM	90 ~ 305	150	257-428	350	93,0	UL CE ENEC CB
PE-P150CC-C035-S-TS	90 ~ 305	150	257-428	350	93,0	UL CE ENEC CB
PE-P150CC-C070-S-DM	90 ~ 305	150	128-214	700	92,5	UL CE ENEC CB
PE-P150CC-C070-S-TS	90 ~ 305	150	128-214	700	92,5	UL CE ENEC CB
PE-P150CC-C070-S-TS	90 ~ 305	150	128-214	700	92,5	UL CE ENEC CB
PE-P150CC-C105-S-ND	90 ~ 305	150	86-143	1050	92,0	UL CE ENEC CB
PE-P150CC-C105-S-DM	90 ~ 305	150	86-143	1050	92,0	UL CE ENEC CB
PE-P150CC-C105-S-TS	90 ~ 305	150	86-143	1050	92,0	UL CE ENEC CB
PE-P150CC-C140-S-ND	90 ~ 305	150	64-107	1400	92,0	UL CE ENEC CB
PE-P150CC-C140-S-DM	90 ~ 305	150	64-107	1400	92,0	UL CE ENEC CB
PE-P150CC-C140-S-TS	90 ~ 305	150	64-107	1400	92,0	UL CE ENEC CB
PE-P150CC-C210-S-ND	90 ~ 305	150	43-72	2100	92,0	UL CE ENEC CB
PE-P150CC-C210-S-DM	90 ~ 305	150	43-72	2100	92,0	UL CE ENEC CB
PE-P150CC-C210-S-TS	90 ~ 305	150	43-72	2100	92,0	UL CE ENEC CB
PE-P150CC-C280-S-ND	90 ~ 305	150	32-54	2800	91,5	UL CE ENEC CB
PE-P150CC-C280-S-DM	90 ~ 305	150	32-54	2800	91,5	UL CE ENEC CB
PE-P150CC-C280-S-TS	90 ~ 305	150	32-54	2800	91,5	UL CE ENEC CB
PE-P150CC-C350-S-TS	90 ~ 305	150	25-43	3500	90,0	UL CE ENEC CB
PE-P150CC-C350-S-DM	90 ~ 305	150	25-43	3500	90,0	UL CE ENEC CB
PE-P150CC-C350-S-TS	90 ~ 305	150	25-43	3500	90,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable

## Specifications

Models		Specification	
Input	Input Voltage	90~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load	
	Inrush Current	65Amax@230Vac 25°C Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Current Accuracy	±5%Io	
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io LED Load60%~100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%Io max & LED Load	
Protection	Output Over Voltage	110%Vomax	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac	
	Over Temperature	Decrease output current until over temperature state is removed	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥280,000 hours, measured at 110Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45 °C ambient temperature	
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48
		Millimeter(L x W x H)	194.0x67.5x37.5
Net Weight	940g		

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Output Current with Constant Wattage Des
- √ Lightning Protection 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light and High Bay

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PF-P250CC-C070-S(U)-ND	90 ~ 305	250	214-357	700	93,0	UL CE ENEC CB
PF-P250CC-C070-S(U)-DM	90 ~ 305	250	214-357	700	93,0	UL CE ENEC CB
PF-P250CC-C070-S(U)-TS	90 ~ 305	250	214-357	700	93,0	UL CE ENEC CB
PF-P250CC-C105-S(U)-ND	90 ~ 305	250	143-238	1050	93,0	UL CE ENEC CB
PF-P250CC-C105-S(U)-DM	90 ~ 305	250	143-238	1050	93,0	UL CE ENEC CB
PF-P250CC-C105-S(U)-TS	90 ~ 305	250	143-238	1050	93,0	UL CE ENEC CB
PF-P250CC-C140-S(U)-ND	90 ~ 305	250	107-179	1400	93,0	UL CE ENEC CB
PF-P250CC-C140-S(U)-DM	90 ~ 305	250	107-179	1400	93,0	UL CE ENEC CB
PF-P250CC-C140-S(U)-TS	90 ~ 305	250	107-179	1400	93,0	UL CE ENEC CB
PF-P250CC-C210-S(U)-ND	90 ~ 305	250	71-119	2100	92,0	UL CE ENEC CB
PF-P250CC-C210-S(U)-DM	90 ~ 305	250	71-119	2100	92,0	UL CE ENEC CB
PF-P250CC-C210-S(U)-TS	90 ~ 305	250	71-119	2100	92,0	UL CE ENEC CB
PF-P250CC-C280-S(U)-ND	90 ~ 305	250	54-89	2800	92,0	UL CE ENEC CB
PF-P250CC-C280-S(U)-DM	90 ~ 305	250	54-89	2800	92,0	UL CE ENEC CB
PF-P250CC-C280-S(U)-TS	90 ~ 305	250	54-89	2800	92,0	UL CE ENEC CB
PF-P250CC-C420-S(U)-ND	90 ~ 305	250	36-60	4200	92,0	UL CE ENEC CB
PF-P250CC-C420-S(U)-DM	90 ~ 305	250	36-60	4200	92,0	UL CE ENEC CB
PF-P250CC-C420-S(U)-TS	90 ~ 305	250	36-60	4200	92,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable



## ■ Specifications

Models		Specifications	
Input	Input Voltage	90~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load	
	Inrush Current	65Amax@230Vac 25°C Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Current Accuracy	±5%Io	
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io	
	Setup Time	1.2s max	
	Output Overshoot	10%Io max & LED Load	
Protection	Output Over Voltage	120% Vomax, typ.	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac	
	Over Temperature	Lower the output current when Tc≧110±5°C; Auto Recovery When Tc≦70±5°C	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40°C~+70°C ; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥280,000 hours, measured at 110 Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110 Vac input, 80% load and 45 °C ambient temperature	
	Dimensions	Inch (LxWxH)	9.49*2.68*1.53
		Millimeter (LxWxH)	241*68*38.8
Net Weight	800g		

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Output Current with Constant Wattage Design
- √ Lightning Protection 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light and High Bay

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PF-P320CC-C140-S-ND	90 ~ 305	320	137-229	1400	93,0	UL CE ENEC CB
PF-P320CC-C140-S-DM	90 ~ 305	320	137-229	1400	93,0	UL CE ENEC CB
PF-P320CC-C140-S-TS	90 ~ 305	320	137-229	1400	93,0	UL CE ENEC CB
PF-P320CC-C210-S-ND	90 ~ 305	320	91-152	2100	93,0	UL CE ENEC CB
PF-P320CC-C210-S-DM	90 ~ 305	320	91-152	2100	93,0	UL CE ENEC CB
PF-P320CC-C210-S-TS	90 ~ 305	320	91-152	2100	93,0	UL CE ENEC CB
PF-P320CC-C280-S-ND	90 ~ 305	320	69-114	2800	92,0	UL CE ENEC CB
PF-P320CC-C280-S-DM	90 ~ 305	320	69-114	2800	92,0	UL CE ENEC CB
PF-P320CC-C280-S-TS	90 ~ 305	320	69-114	2800	92,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable

## ■ Specifications

Models		Specifications		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25℃ Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo		
	Setup Time	1.2s max		
	Output Overshoot	10%lo max & LED Load		
Protection	Output Over Voltage	120% Vomax, typ.		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Lower the output current when Tc≧110±5℃; Auto Recovery When Tc≦70±5℃		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40℃~+70℃ ; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40℃~+85℃; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 110 Vac input, 80% load and 25℃ ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110 Vac input, 80% load and 45℃ ambient temperature		
	Dimensions	Inch (LxWxH)	9.92/8.86X3.54X1.65	
		Millimeter (LxWxH)	252/225 x 90 x 42	
Net Weight	1000g			

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 94.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Output Current with Constant Wattage Design
- √ Lightning Protection 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light and High Bay

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PF-P400CC-C140-S-ND	90 ~ 305	400	171-286	1400	93,0	UL CE ENEC CB
PF-P400CC-C140-S-DM	90 ~ 305	400	171-286	1400	93,0	UL CE ENEC CB
PF-P400CC-C140-S-TS	90 ~ 305	400	171-286	1400	93,0	UL CE ENEC CB
PF-P400CC-C210-S-ND	90 ~ 305	400	114-190	2100	93,0	UL CE ENEC CB
PF-P400CC-C210-S-DM	90 ~ 305	400	114-190	2100	93,0	UL CE ENEC CB
PF-P400CC-C210-S-TS	90 ~ 305	400	114-190	2100	93,0	UL CE ENEC CB
PF-P400CC-C280-S-ND	90 ~ 305	400	86-143	2800	92,0	UL CE ENEC CB
PF-P400CC-C280-S-DM	90 ~ 305	400	86-143	2800	92,0	UL CE ENEC CB
PF-P400CC-C280-S-TS	90 ~ 305	400	86-143	2800	92,0	UL CE ENEC CB
PF-P400CC-C420-S-ND	90 ~ 305	400	57-95	4200	92,0	UL CE ENEC CB
PF-P400CC-C420-S-DM	90 ~ 305	400	57-95	4200	92,0	UL CE ENEC CB
PF-P400CC-C420-S-TS	90 ~ 305	400	57-95	4200	92,0	UL CE ENEC CB

Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming; CS means output current programmable

## ■ Specifications

Models		Specifications		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25℃ Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo		
	Setup Time	1.2s max		
	Output Overshoot	10%lo max & LED Load		
Protection	Output Over Voltage	120% Vomax, typ.		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Lower the output current when Tc≧110±5℃; Auto Recovery When Tc≦70±5℃		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40℃~+70℃ ; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40℃~+85℃; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 110 Vac input, 80% load and 25℃ ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110 Vac input, 80% load and 45℃ ambient temperature		
	Dimensions	Inch (LxWxH)	9.92/8.86X3.54X1.65	
		Millimeter (LxWxH)	252/225 x 90 x 42	
Net Weight	1000g			

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Output Current and Timing Dimming
- √ Lighting Protection up to 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P075CC-C050-S-CS	90 ~ 305	75	90-214	350-500	91,0	UL CE ENEC CB
PE-P075CC-C070-S-CS	90 ~ 305	75	64-150	510-700	90,0	UL CE ENEC CB
PE-P075CC-C105-S-CS	90 ~ 305	75	43-107	710-1050	90,0	UL CE ENEC CB
PE-P075CC-C140-S-CS	90 ~ 305	75	32-71	1060-1400	89,0	UL CE ENEC CB
PE-P075CC-C210-S-CS	90 ~ 305	75	21-53	1450-2100	88,0	UL CE ENEC CB
PE-P075CC-C280-S-CS	90 ~ 305	75	16-35	2150-2800	88,0	UL CE ENEC CB

## ■ Specifications

Models		Specifications	
Input	Input Voltage	90~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load	
	Inrush Current	65Amax@230Vac 25°C Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Current Accuracy	±5%lo	
	Ripple Current <sup>[2]</sup>	lp-p:5%lo LED Load60%~100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%lo max & LED Load	
Protection	Output Over Voltage	110% Vomax	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac	
	Over Temperature	Decrease output current until over temperature state is removed	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥280,000 hours, measured at 110Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45 °C ambient temperature	
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48
		Millimeter(L x W x H)	194.0x67.5x37.5
Net Weight	940g		

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Output Current and Timing Dimming
- √ Lighting Protection up to 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-P090CC-C060-S-CS	90 ~ 305Vac	90W	90-191Vdc	470-600mA	91.0%	CE CCC ENEC CB
PE-P090CC-C060-U-CS	90 ~ 305Vac	90W	90-191Vdc	470-600mA	91.0%	CE FCC UL
PE-P090CC-C085-S-CS	90 ~ 305Vac	90W	64-150Vdc	600-850mA	90.0%	CE CCC ENEC CB
PE-P090CC-C085-U-CS	90 ~ 305Vac	90W	64-150Vdc	600-850mA	90.0%	CE FCC UL
PE-P090CC-C120-S-CS	90 ~ 305Vac	90W	45-106Vdc	850-1200mA	90.0%	CE CCC ENEC CB
PE-P090CC-C120-U-CS	90 ~ 305Vac	90W	45-106Vdc	850-1200mA	90.0%	CE FCC UL
PE-P090CC-C150-S-CS	90 ~ 305Vac	90W	36-75Vdc	1200-1500mA	89.0%	CE CCC ENEC CB
PE-P090CC-C150-U-CS	90 ~ 305Vac	90W	36-75Vdc	1200-1500mA	89.0%	CE FCC UL
PE-P090CC-C260-S-CS	90 ~ 305Vac	90W	21-45Vdc	2000-2600mA	88.0%	CE CCC ENEC CB
PE-P090CC-C260-U-CS	90 ~ 305Vac	90W	21-45Vdc	2000-2600mA	88.0%	CE FCC UL
PE-P090CC-C350-S-CS	90 ~ 305Vac	90W	15-35Vdc	2600-3500mA	88.0%	CE CCC ENEC CB
PE-P090CC-C350-U-CS	90 ~ 305Vac	90W	15-35Vdc	2600-3500mA	88.0%	CE FCC



## ■ Specifications

Items		Specification	
Input	Input Voltage	90~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	0.90Amax@110Vac & Full-Load; 0.45Amax@220Vac & Full-Load	
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Rated Power	90W	
	Current Accuracy	±5%lo	
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED 60%-100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%lo	
Protection	Output Over Voltage	110%-120% Vomax	
	Over Temperature	Decrease output current until over temperature state is removed	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>	
	Case Temperature	90°Cmax <sup>[5]</sup>	
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48
		Millimeter(L x W x H)	145.0x67.5x37.5
Net Weight	720g		

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Output Current and Timing Dimming
- √ Lighting Protection up to 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-P096CC-C065-S-CS	90 ~ 305Vac	96W	89-192Vdc	500-650mA	91.0%	CE CCC
PE-P096CC-C065-U-CS	90 ~ 305Vac	96W	89-192Vdc	500-650mA	91.0%	CE FCC
PE-P096CC-C096-S-CS	90 ~ 305Vac	96W	64-148Vdc	650-900mA	90.0%	CE CCC
PE-P096CC-C096-U-CS	90 ~ 305Vac	96W	64-148Vdc	650-900mA	90.0%	CE FCC
PE-P096CC-C125-S-CS	90 ~ 305Vac	96W	46-107Vdc	900-1250mA	90.0%	CE CCC
PE-P096CC-C125-U-CS	90 ~ 305Vac	96W	46-107Vdc	900-1250mA	90.0%	CE FCC
PE-P096CC-C160-S-CS	90 ~ 305Vac	96W	36-77Vdc	1250-1600mA	89.0%	CE CCC
PE-P096CC-C160-U-CS	90 ~ 305Vac	96W	36-77Vdc	1250-1600mA	89.0%	CE FCC
PE-P096CC-C210-S-CS	90 ~ 305Vac	96W	27-69Vdc	1400-2100mA	88.0%	CE CCC
PE-P096CC-C210-U-CS	90 ~ 305Vac	96W	27-69Vdc	1400-2100mA	88.0%	CE FCC
PE-P096CC-C280-S-CS	90 ~ 305Vac	96W	21-46Vdc	2100-2800mA	88.0%	CE CCC
PE-P096CC-C280-U-CS	90 ~ 305Vac	96W	21-46Vdc	2100-2800mA	88.0%	CE FCC
PE-P096CC-C375-S-CS	90 ~ 305Vac	96W	15-34Vdc	2800-3750mA	88.0%	CE CCC
PE-P096CC-C375-U-CS	90 ~ 305Vac	96W	15-34Vdc	2800-3750mA	88.0%	CE FCC

## ■ Specifications

Items		Specification	
Input	Input Voltage	90~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	1.0Amax@110Vac & Full-Load; 0.6Amax@220Vac & Full-Load	
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Rated Power	96W	
	Current Accuracy	±5%lo	
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED 60%-100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%lo	
Protection	Output Over Voltage	110%-120% Vomax	
	Over Temperature	Decrease output current until over temperature state is removed	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>	
	Case Temperature	90°Cmax <sup>[5]</sup>	
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48
		Millimeter(L x W x H)	145.0x67.5x37.5
Net Weight	720g		

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-P120CC-C060-S-CS	90 ~ 305Vac	120W	120-300Vdc	400-600mA	92.0%	CE CCC ENEC CB
PE-P120CC-C060-U-CS	90 ~ 305Vac	120W	120-300Vdc	400-600mA	92.0%	CE FCC UL
PE-P120CC-C080-S-CS	90 ~ 305Vac	120W	90-200Vdc	600-800mA	91.5%	CE CCC ENEC CB
PE-P120CC-C080-U-CS	90 ~ 305Vac	120W	90-200Vdc	600-800mA	91.5%	CE FCC UL
PE-P120CC-C120-S-CS	90 ~ 305Vac	120W	60-150Vdc	800-1200mA	91.0%	CE CCC ENEC CB
PE-P120CC-C120-U-CS	90 ~ 305Vac	120W	60-150Vdc	800-1200mA	91.0%	CE FCC UL
PE-P120CC-C180-S-CS	90 ~ 305Vac	120W	40-86Vdc	1400-1800mA	92.0%	CE CCC ENEC CB
PE-P120CC-C180-U-CS	90 ~ 305Vac	120W	40-86Vdc	1400-1800mA	92.0%	CE FCC UL
PE-P120CC-C240-S-CS	90 ~ 305Vac	120W	30-63Vdc	1900-2400mA	91.5%	CE CCC ENEC CB
PE-P120CC-C240-U-CS	90 ~ 305Vac	120W	30-63Vdc	1900-2400mA	91.5%	CE FCC UL
PE-P120CC-C300-S-CS	90 ~ 305Vac	120W	24-48Vdc	2500-3000mA	91.0%	CE CCC ENEC CB
PE-P120CC-C300-U-CS	90 ~ 305Vac	120W	24-48Vdc	2500-3000mA	91.0%	CE FCC UL
PE-P120CC-C350-S-CS	90 ~ 305Vac	120W	21-39Vdc	3100-3500mA	91.0%	CE CCC ENEC CB
PE-P120CC-C350-U-CS	90 ~ 305Vac	120W	21-39Vdc	3100-3500mA	91.0%	CE FCC UL

## ■ Specifications

Items		Specifications	
Input	Input Voltage	90~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load	
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Current Accuracy	±5%lo	
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo LED 60%~100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%lo max & LED Load	
Protection	Output Over Voltage	110% Vomax	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac	
	Over Temperature	Decrease output current until over temperature state is removed	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥300,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>	
	Case Temperature	90°Cmax <sup>[5]</sup>	
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48
		Millimeter(L x W x H)	194.0x67.5x37.5
Net Weight	940g		

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P150CC-C050-S-CS	90 ~ 305	150	180-429	350-500	92,0	UL CE ENEC CB
PE-P150CC-C070-S-CS	90 ~ 305	150	129-294	510-700	92,0	UL CE ENEC CB
PE-P150CC-C105-S-CS	90 ~ 305	150	86-211	710-1050	91,5	UL CE ENEC CB
PE-P150CC-C140-S-CS	90 ~ 305	150	64-142	1060-1400	91,0	UL CE ENEC CB
PE-P150CC-C180-S-CS	90 ~ 305	150	50-106	1410-1800	92,0	UL CE ENEC CB
PE-P150CC-C240-S-CS	90 ~ 305	150	38-83	1810-2400	92,0	UL CE ENEC CB
PE-P150CC-C310-S-CS	90 ~ 305	150	29-62	2410-3100	91,5	UL CE ENEC CB
PE-P150CC-C380-S-CS	90 ~ 305	150	24-48	3110-3800	91,0	UL CE ENEC CB

## ■ Specifications

Models		Specifications		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo LED Load60%~100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%lo max & LED Load		
Protection	Output Over Voltage	110% Vomax		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 110Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45 °C ambient temperature		
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48	
		Millimeter(L x W x H)	194.0x67.5x37.5	
Net Weight	940g			

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-F200CC-C066-S-CS	176-305	200	180-429	470-660	92,0	CE
PE-P200CC-C070-S-CS	90-305	200	171-377	530-700	92,5	CE
PE-F200CC-C092-S-CS	176-305	200	129-294	670-920	92,0	CE
PE-P200CC-C105-S-CS	90-305	200	114-282	710-1050	92,0	CE
PE-P200CC-C140-S-CS	90-305	200	86-189	1060-1400	92,0	CE
PE-F200CC-C140-S-CS	176-305	200	86-211	930-1400	91,5	CE
PE-F200CC-C180-S-CS	176-305	200	64-142	1410-1800	91,0	CE
PE-F200CC-C240-S-CS	176-305	200	50-106	1810-2400	92,0	CE
PE-F200CC-C320-S-CS	176-305	200	38-83	2410-3200	92,5	CE
PE-F200CC-C410-S-CS	176-305	200	29-62	3210-4100	91,5	CE
PE-F200CC-C470-S-CS	176-305	200	26-49	4110-4700	91,5	CE



## ■ Specifications

Models		Specifications		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	2.4 Amax@110Vac & Full-Load; 1.2Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%Io		
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io LED Load 60%~100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%Io max & LED Load		
Protection	Output Over Voltage	110% Vomax		
	Input Under Voltage	Shut Down When Vmains≤70±5Vac; Auto Recovery When Vmains≥75±5Vac		
	Over Temperature	OTP Reacts When Tc ≥ 90±5°C; Auto Recovery When Tc ≤ 70±5°C		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C ~ +70°C; 10%RH~100%RH(See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C ~ +85°C; 5%RH~100%RH		
Others	MTBF	≥305,000 hours, measured at 110Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 45°C ambient temperature		
	Dimensions	Inch(L x W x H)	8.46x2.66x1.48	
		Millimeter(L x W x H)	215.0x67.5x37.5	
Net Weight	1022g			

**Notes:**

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Output Current with Constant Wattage Des
- √ Lightning Protection 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light and High Bay

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Max Output Voltage (Vomax)	Settable Current Min (Iomin)	Settable Current Max (Iomax)	Typical Eff.	Certification (ongoing)
PF-P250CC-C080-S(U)-CS	90 ~ 305 Vac	250 W	472Vdc	530mA	800mA	93%	UL/FCC/ CB/ENEC /CCC
PF-P250CC-C130-S(U)-CS	90 ~ 305 Vac	250 W	294Vdc	850mA	1300mA	93%	
PF-P250CC-C210-S(U)-CS	90 ~ 305 Vac	250 W	179Vdc	1400mA	2100mA	92%	
PF-P250CC-C420-S(U)-CS	90 ~ 305 Vac	250 W	89Vdc	2800mA	4200mA	92%	

## ■ Specifications

Models		C080	C130	C210	C420
Input	Input Voltage	90~305Vac			
	Input Frequency	47~63Hz			
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.			
	THD	<15%@60-100%load, refer to THD vs. Load curve.			
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load			
	Efficiency <sup>[1]</sup>	93%	93%	92%	92%
	Inrush Current	65Amax@230Vac 25°C Cold Start			
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1			
Output	Rated Power	240W	240W	240W	240W
	Rated Current	800mA	1300mA	2100mA	4200mA
	Output Voltage	180-452 Vdc	111-282 Vdc	69-171 Vdc	34-86Vdc
	Current Accuracy	±5%Io			
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io			
	Setup Time	1.2s max			
	Output Overshoot	10%Io max & LED Load			
Protection	Output Over Voltage	120% Vomax, typ.			
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac			
	Over Temperature	Lower the output current when Tc≥ 110±5°C; Auto Recovery When Tc≤ 70±5°C			
	Short Circuit	Auto recovery. The output recovers when short is removed.			
Environmental Condition	Operating Temperature	-40°C~+70°C ; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>			
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH			
Others	MTBF	≥280,000 hours, measured at 110 Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)			
	Lifetime	≥50,000 hours, measured at 110 Vac input, 80% load and 45°C ambient temperature			
	Dimensions	Inch (LxWxH)		9.49*2.68*1.53	
		Millimeter (LxWxH)		241*68*38.8	
Net Weight	800g				

### Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 94.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Output Current with Constant Wattage Design
- √ Lightning Protection 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light and High Bay

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PF-P320CC-C170-S-CS	90 ~ 305	320	113-286	1120-1700	93,0	UL CE ENEC CB
PF-P320CC-C340-S-CS	90 ~ 305	320	56-142	2240-3400	92,0	UL CE ENEC CB

## ■ Specifications

Models		C170	C340	
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load		
	Efficiency <sup>[1]</sup>	94.0%	93.0%	
	Inrush Current	65Amax@230Vac 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Rated Power	320W	320W	
	Rated Current	1700mA	3400mA	
	Output Voltage	114-286Vdc	57-142Vdc	
	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo		
	Setup Time	1.2s max		
	Output Overshoot	10%lo max & LED Load		
Protection	Output Over Voltage	120% Vomax, typ.		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Lower the output current when Tc≧110±5°C; Auto Recovery When Tc≦70±5°C		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C~+70°C ; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 110 Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110 Vac input, 80% load and 45°C ambient temperature		
	Dimensions	Inch (LxWxH)	9.92/8.86X3.54X1.65	
		Millimeter (LxWxH)	252/225 x 90 x 42	
Net Weight	1000g			

### Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 90~305Vac
- √ High Efficiency up to 94.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Output Current with Constant Wattage Design
- √ Lightning Protection 6kV
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light and High Bay

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PF-P400CC-C210-S-CS	90 ~ 305	400	114-286	1400-2100	93,0	UL CE ENEC CB
PF-P400CC-C420-S-CS	90 ~ 305	400	57-142	2800-4200	92,0	UL CE ENEC CB

## ■ Specifications

Models		C210	C420	
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load		
	Efficiency <sup>[1]</sup>	94.0%	93.0%	
	Inrush Current	65Amax@230Vac 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Rated Power	400W	400W	
	Rated Current	2100mA	4200mA	
	Output Voltage	114-286Vdc	57-142Vdc	
	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo		
	Setup Time	1.2s max		
	Output Overshoot	10%lo max & LED Load		
Protection	Output Over Voltage	120% Vomax, typ.		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Lower the output current when Tc≧110±5°C; Auto Recovery When Tc≦70±5°C		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C~+70°C ; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 110 Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110 Vac input, 80% load and 45°C ambient temperature		
	Dimensions	Inch (LxWxH)	9.92/8.86X3.54X1.65	
		Millimeter (LxWxH)	252/225 x 90 x 42	
Net Weight	1000g			

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 176~305Vac
- √ High Efficiency up to 91%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Programmable Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-F120CC-C070-S-CS	176~305Vac	120W	112-231Vdc	500-700mA	91%	CE CCC
PE-F120CC-C105-S-CS	176~305Vac	120W	75-158Vdc	710-1050mA	90%	CE CCC
PE-F120CC-C140-S-CS	176~305Vac	120W	64-125Vdc	1060-1400mA	89%	CE CCC



## ■ Specifications

Models		Specifications		
Input	Input Voltage	176~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	0.9Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25°C Cold Start		
	Leakage Current	0.75mAmx @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%Io		
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io LED Load60%~100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%Io max & LED Load		
Protection	Output Over Voltage	110% Vomax		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 220Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 220Vac input, 80% load and 45 °C ambient temperature		
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48	
		Millimeter(L x W x H)	145.0x67.5x37.5	
Net Weight	940g			

**Notes:**

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage: 176~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-F180CC-C060-S-CS	176 ~ 305Vac	180W	180-429Vdc	420-600mA	92.0%	CE CCC
PE-F180CC-C085-S-CS	176 ~ 305Vac	180W	129-294Vdc	610-850mA	92.0%	CE CCC
PE-F180CC-C125-S-CS	176 ~ 305Vac	180W	86-211Vdc	860-1260mA	91.5%	CE CCC
PE-F180CC-C160-S-CS	176 ~ 305Vac	180W	64-142Vdc	1260-1600mA	91.0%	CE CCC
PE-F180CC-C220-S-CS	176 ~ 305Vac	180W	50-106Vdc	1610-2200mA	92.0%	CE CCC
PE-F180CC-C290-S-CS	176 ~ 305Vac	180W	38-83Vdc	2210-2900mA	92.0%	CE CCC
PE-F180CC-C370-S-CS	176 ~ 305Vac	180W	29-62Vdc	2910-3700mA	91.5%	CE CCC
PE-F180CC-C420-S-CS	176 ~ 305Vac	180W	26-49Vdc	3710-4200mA	91.5%	CE CCC

## ■ Specifications

Models		Specifications		
Input	Input Voltage	176~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	0.9Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25°C Cold Start		
	Leakage Current	0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%Io		
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io LED Load60%~100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%Io max & LED Load		
Protection	Output Over Voltage	110% Vomax		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 220Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 220Vac input, 80% load and 45°C ambient temperature		
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48	
		Millimeter(L x W x H)	194.0x67.5x37.5	
Net Weight	940g			

**Notes:**

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:176~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-F200CC-C066-S-CS	176 ~ 305Vac	200W	180-429Vdc	470-660mA	92.0%	CE CCC
PE-F200CC-C092-S-CS	176 ~ 305Vac	200W	129-294Vdc	670-920mA	92.0%	CE CCC
PE-F200CC-C140-S-CS	176 ~ 305Vac	200W	86-211Vdc	930-1400mA	91.5%	CE CCC
PE-F200CC-C180-S-CS	176 ~ 305Vac	200W	64-142Vdc	1410-1800mA	91.0%	CE CCC
PE-F200CC-C240-S-CS	176 ~ 305Vac	200W	50-106Vdc	1810-2400mA	92.0%	CE CCC
PE-F200CC-C320-S-CS	176 ~ 305Vac	200W	38-83Vdc	2410-3200mA	92.0%	CE CCC
PE-F200CC-C410-S-CS	176 ~ 305Vac	200W	29-62Vdc	3210-4100mA	91.5%	CE CCC
PE-F200CC-C470-S-CS	176 ~ 305Vac	200W	26-49Vdc	4110-4700mA	91.5%	CE CCC

## ■ Specifications

Models		Specifications		
Input	Input Voltage	176~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Input Current	0.9Amax@220Vac & Full-Load		
	Inrush Current	65Amax@230Vac 25℃ Cold Start		
	Leakage Current	0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%Io		
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io LED Load60%~100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%Io max & LED Load		
Protection	Output Over Voltage	110% Vomax		
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-40℃~+70℃; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-40℃~+85℃; 5%RH~100%RH		
Others	MTBF	≥280,000 hours, measured at 220Vac input, 80% load and 25℃ ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 220Vac input, 80% load and 45℃ ambient temperature		
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48	
		Millimeter(L x W x H)	194.0x67.5x37.5	
Net Weight	940g			

**Notes:**

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- √ Wide Input Voltage:176~305Vac
- √ High Efficiency up to 93.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range	Output Power	Output Voltage Range	Full Power Output Current	Typical Eff.	Certification
PE-F250CC-C065-U-CS	176 ~ 305Vac	250W	231-472Vdc	530 - 650mA	92.5%	CE FCC
PE-F250CC-C065-S-CS	176 ~ 305Vac	250W	231-472Vdc	530 - 650mA	92.5%	CE CCC
PE-F250CC-C086-U-CS	176 ~ 305Vac	250W	174-379Vdc	660 - 860mA	92.0%	CE CCC
PE-F250CC-C086-S-CS	176 ~ 305Vac	250W	174-379Vdc	660 - 860mA	92.0%	CE FCC
PE-F250CC-C130-U-CS	176 ~ 305Vac	250W	115-287Vdc	870-1300mA	92.0%	CE FCC
PE-F250CC-C130-S-CS	176 ~ 305Vac	250W	115-287Vdc	870-1300mA	92.0%	CE CCC
PE-F250CC-C170-U-CS	176 ~ 305Vac	250W	88-191Vdc	1310- 1700mA	91.0%	CE FCC
PE-F250CC-C170-S-CS	176 ~ 305Vac	250W	88-191Vdc	1310- 1700mA	91.0%	CE CCC

## ■ Specifications

Models		Specifications	
Input	Input Voltage	176~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Input Current	1.2Amax@220Vac & Full-Load	
	Inrush Current	65Amax@230Vac 25℃ Cold Start	
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Current Accuracy	±5%Io	
	Ripple Current <sup>[2]</sup>	Ip-p:5%Io LED Load 60%~100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%Io max & LED Load	
Protection	Output Over Voltage	110% Vomax	
	Input Under Voltage	Shut Down When Vmains≤70±5Vac; Auto Recovery When Vmains≥75±5Vac	
	Over Temperature	OTP Reacts When Tc≧90±5℃; Auto Recovery When Tc≦70±5℃	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-40℃~+70℃; 10%RH~100%RH(See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-40℃~+85℃; 5%RH~100%RH	
Others	MTBF	≥305,000 hours, measured at 220Vac input, 80% load and 25℃ ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 220Vac input, 80% load and 45℃ ambient temperature	
	Dimensions	Inch(L x W x H)	8.46x2.66x1.48
		Millimeter(L x W x H)	215.0x67.5x37.5
Net Weight	1022g		

Notes:

[1] Measured at full load and 220Vac in the thermal balanced condition.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] All the test results are measured in the 25DegC room temperature, if the low and high temperature performance test results are required; please contact with the sales and technical support team, the contact is listed in the last page.

## ■ Description

- ✓ Wide Input Voltage: 90~305Vac
- ✓ **-55C Ambient Temperature Cold Start**
- ✓ **5 Year Warranty**
- ✓ All-Around Protection: OVP/OTP/SHORT
- ✓ Programmable Timing Dimming
- ✓ Lighting Protection
- ✓ Waterproof: IP67
- ✓ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- ✓ Safety Design Compliant to UL8750/IEC61347
- ✓ Thermal Optimized Aluminum Case with Potting
- ✓ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P060CC-C035-S(U)-ND	90 ~ 305	60	103-171	350	90,0	CE CCC ENEC CB FCC UL
PE-P060CC-C035-S(U)-DM	90 ~ 305	60	103-171	350	90,0	CE CCC ENEC CB FCC UL
PE-P060CC-C035-S(U)-TS	90 ~ 305	60	103-171	350	90,0	CE CCC ENEC CB FCC UL
PE-P060CC-C070-S(U)-ND	90 ~ 305	60	51-86	700	90,0	CE CCC ENEC CB FCC UL
PE-P060CC-C070-S(U)-DM	90 ~ 305	60	51-86	700	90,0	CE CCC ENEC CB FCC UL
PE-P060CC-C070-S(U)-TS	90 ~ 305	60	51-86	700	90,0	CE CCC ENEC CB FCC UL
PE-P060CC-C105-S(U)-ND	90 ~ 305	60	34-57	1050	89,0	CE CCC ENEC CB FCC UL
PE-P060CC-C105-S(U)-DM	90 ~ 305	60	34-57	1050	89,0	CE CCC ENEC CB FCC UL
PE-P060CC-C105-S(U)-TS	90 ~ 305	60	34-57	1050	89,0	CE CCC ENEC CB FCC UL
PE-P060CC-C140-S(U)-ND	90 ~ 305	60	26-43	1400	91,0	CE CCC ENEC CB FCC UL
PE-P060CC-C140-S(U)-DM	90 ~ 305	60	26-43	1400	91,0	CE CCC ENEC CB FCC UL
PE-P060CC-C140-S(U)-TS	90 ~ 305	60	26-43	1400	91,0	CE CCC ENEC CB FCC UL
PE-P060CC-C210-S(U)-ND	90 ~ 305	60	17-29	2100	88,0	CE CCC ENEC CB FCC UL
PE-P060CC-C210-S(U)-DM	90 ~ 305	60	17-29	2100	88,0	CE CCC ENEC CB FCC UL
PE-P060CC-C210-S(U)-TS	90 ~ 305	60	17-29	2100	88,0	CE CCC ENEC CB FCC UL
PE-P060CC-C280-S(U)-ND	90 ~ 305	60	13-21	2800	88,0	CE CCC ENEC CB FCC UL
PE-P060CC-C280-S(U)-DM	90 ~ 305	60	13-21	2800	88,0	CE CCC ENEC CB FCC UL
PE-P060CC-C280-S(U)-TS	90 ~ 305	60	13-21	2800	88,0	CE CCC ENEC CB FCC UL

**Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming**



## ■ Specifications

Items		Specification		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	Input Current	0.90Amax@110Vac & Full-Load; 0.45Amax@220Vac & Full-Load		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Output Voltage	110%Vomax		
	Current Accuracy	±5%Io		
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED 60%-100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%Io		
Protection	Output Over Voltage	110% Vomax		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-55°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-60°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>		
	Case Temperature	90°C max <sup>[5]</sup>		
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48	
		Millimeter(L x W x H)	145.0x67.5x37.5	
Net Weight	720g			

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ -55C Ambient Temperature Cold Start
- √ 5 Year Warranty
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P075CC-C035-S(U)-ND	90 ~ 305	75	128-214	350	91,0	CE CCC ENEC CB FCC UL
PE-P075CC-C035-S(U)-DM	90 ~ 305	75	128-214	350	91,0	CE CCC ENEC CB FCC UL
PE-P075CC-C035-S(U)-TS	90 ~ 305	75	128-214	350	91,0	CE CCC ENEC CB FCC UL
PE-P075CC-C070-S(U)-ND	90 ~ 305	75	64-107	700	90,0	CE CCC ENEC CB FCC UL
PE-P075CC-C070-S(U)-DM	90 ~ 305	75	64-107	700	90,0	CE CCC ENEC CB FCC UL
PE-P075CC-C070-S(U)-TS	90 ~ 305	75	64-107	700	90,0	CE CCC ENEC CB FCC UL
PE-P075CC-C105-S(U)-ND	90 ~ 305	75	43-72	1050	90,0	CE CCC ENEC CB FCC UL
PE-P075CC-C105-S(U)-DM	90 ~ 305	75	43-72	1050	90,0	CE CCC ENEC CB FCC UL
PE-P075CC-C105-S(U)-TS	90 ~ 305	75	43-72	1050	90,0	CE CCC ENEC CB FCC UL
PE-P075CC-C140-S(U)-ND	90 ~ 305	75	32-54	1400	89,0	CE CCC ENEC CB FCC UL
PE-P075CC-C140-S(U)-DM	90 ~ 305	75	32-54	1400	89,0	CE CCC ENEC CB FCC UL
PE-P075CC-C140-S(U)-TS	90 ~ 305	75	32-54	1400	89,0	CE CCC ENEC CB FCC UL
PE-P075CC-C210-S(U)-ND	90 ~ 305	75	22-36	2100	88,0	CE CCC ENEC CB FCC UL
PE-P075CC-C210-S(U)-DM	90 ~ 305	75	22-36	2100	88,0	CE CCC ENEC CB FCC UL
PE-P075CC-C210-S(U)-TS	90 ~ 305	75	22-36	2100	88,0	CE CCC ENEC CB FCC UL
PE-P075CC-C280-S(U)-ND	90 ~ 305	75	16-27	2800	88,0	CE CCC ENEC CB FCC UL
PE-P075CC-C280-S(U)-DM	90 ~ 305	75	16-27	2800	88,0	CE CCC ENEC CB FCC UL
PE-P075CC-C280-S(U)-TS	90 ~ 305	75	16-27	2800	88,0	CE CCC ENEC CB FCC UL

**Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming**

## ■ Specifications

Items		Specification		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	Input Current	0.90Amax@110Vac & Full-Load; 0.45Amax@220Vac & Full-Load		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED 60%-100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%lo		
Protection	Output Over Voltage	110%Vomax		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-55°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-60°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>		
	Case Temperature	90°Cmax <sup>[5]</sup>		
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48	
		Millimeter(L x W x H)	145.0x67.5x37.5	
Net Weight	720g			

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage:90~305Vac
- √ High Efficiency up to 91.0%
- √ APFC (Active Power Factor Correction): 0.99 Typical
- √ All-Around Protection: OVP/OTP/SHORT
- √ Programmable Timing Dimming
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting
- √ ROHS, CE (LVD+EMC), FCC, CCC Certification



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-P090CC-C050-S(U)-ND	90 ~ 305	90	108-190	500	91,0	CE CCC ENEC CB FCC UL
PE-P090CC-C050-S(U)-DM	90 ~ 305	90	108-190	500	91,0	CE CCC ENEC CB FCC UL
PE-P090CC-C050-S(U)-TS	90 ~ 305	90	108-190	500	91,0	CE CCC ENEC CB FCC UL
PE-P090CC-C070-S(U)-ND	90 ~ 305	90	77-129	700	90,0	CE CCC ENEC CB FCC UL
PE-P090CC-C070-S(U)-DM	90 ~ 305	90	77-129	700	90,0	CE CCC ENEC CB FCC UL
PE-P090CC-C070-S(U)-TS	90 ~ 305	90	77-129	700	90,0	CE CCC ENEC CB FCC UL
PE-P090CC-C105-S(U)-ND	90 ~ 305	90	51-86	1050	90,0	CE CCC ENEC CB FCC UL
PE-P090CC-C105-S(U)-DM	90 ~ 305	90	51-86	1050	90,0	CE CCC ENEC CB FCC UL
PE-P090CC-C105-S(U)-TS	90 ~ 305	90	51-86	1050	90,0	CE CCC ENEC CB FCC UL
PE-P090CC-C140-S(U)-ND	90 ~ 305	90	39-64	1400	89,0	CE CCC ENEC CB FCC UL
PE-P090CC-C140-S(U)-DM	90 ~ 305	90	39-64	1400	89,0	CE CCC ENEC CB FCC UL
PE-P090CC-C140-S(U)-TS	90 ~ 305	90	39-64	1400	89,0	CE CCC ENEC CB FCC UL
PE-P090CC-C210-S(U)-ND	90 ~ 305	90	26-43	2100	88,0	CE CCC ENEC CB FCC UL
PE-P090CC-C210-S(U)-DM	90 ~ 305	90	26-43	2100	88,0	CE CCC ENEC CB FCC UL
PE-P090CC-C210-S(U)-TS	90 ~ 305	90	26-43	2100	88,0	CE CCC ENEC CB FCC UL
PE-P090CC-C280-S(U)-ND	90 ~ 305	90	19-32	2800	88,0	CE CCC ENEC CB FCC UL
PE-P090CC-C280-S(U)-DM	90 ~ 305	90	19-32	2800	88,0	CE CCC ENEC CB FCC UL
PE-P090CC-C280-S(U)-TS	90 ~ 305	90	19-32	2800	88,0	CE CCC ENEC CB FCC UL

**Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming**

## ■ Specifications

Items		Specification		
Input	Input Voltage	90~305Vac		
	Input Frequency	47~63Hz		
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.		
	Input Current	0.90Amax@110Vac & Full-Load; 0.45Amax@220Vac & Full-Load		
	THD	<15%@60-100%load, refer to THD vs. Load curve.		
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start		
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1		
Output	Current Accuracy	±5%lo		
	Ripple Current <sup>[2]</sup>	Ip-p: 3%LED 60%-100% Load		
	Setup Time	1.2s max		
	Output Overshoot	10%lo		
Protection	Output Over Voltage	115%Vomax		
	Over Temperature	Decrease output current until over temperature state is removed		
	Short Circuit	Auto recovery. The output recovers when short is removed.		
Environmental Condition	Operating Temperature	-55°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>		
	Storage Temperature	-60°C~+85°C; 5%RH~100%RH		
Others	MTBF	≥320,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>		
	Case Temperature	90°C max <sup>[5]</sup>		
	Dimensions	Inch(L x W x H)	5.71x2.66x1.48	
		Millimeter(L x W x H)	145.0x67.5x37.5	
Net Weight	720g			

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- √ Wide Input Voltage: 176~305Vac
- √ -55C Ambient Temperature Cold Start
- √ 5 Year Warranty
- √ 0-10V/PWM/Resistor/Time 4 in 1 Dimmable
- √ Lighting Protection
- √ Waterproof: IP67
- √ 100% Full Load Aging Test for 4 Hours @Ta=45°C
- √ Safety Design Compliant to UL8750/IEC61347
- √ Thermal Optimized Aluminum Case with Potting



## ■ Application

Outdoor Applications: Street Light, Tunnel Light, Landscape Light, Garden Light and others

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
PE-F120CC-C050-S-ND	176 ~ 305	120	112-231	500	92,0	CE CCC
PE-F120CC-C050-S-DM	176 ~ 305	120	112-231	500	92,0	CE CCC
PE-F120CC-C050-S-TS	176 ~ 305	120	112-231	500	92,0	CE CCC
PE-F120CC-C070-S-ND	176 ~ 305	120	75-158	700	91,5	CE CCC
PE-F120CC-C070-S-DM	176 ~ 305	120	75-158	700	91,5	CE CCC
PE-F120CC-C070-S-TS	176 ~ 305	120	75-158	700	91,5	CE CCC
PE-F120CC-C105-S-ND	176 ~ 305	120	64-125	1050	91,0	CE CCC
PE-F120CC-C105-S-DM	176 ~ 305	120	64-125	1050	91,0	CE CCC
PE-F120CC-C105-S-TS	176 ~ 305	120	64-125	1050	91,0	CE CCC
PE-F120CC-C140-S-ND	176 ~ 305	120	51-86	1400	91,0	CE CCC
PE-F120CC-C140-S-DM	176 ~ 305	120	51-86	1400	91,0	CE CCC
PE-F120CC-C140-S-TS	176 ~ 305	120	51-86	1400	91,0	CE CCC

**Note: ND means non-dimming model; DM means 0-10V dimmable; TS means timer dimming**

## ■ Specifications

Items		Specification	
Input	Input Voltage	176~305Vac	
	Input Frequency	47~63Hz	
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.	
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load	
	THD	<15%@60-100%load, refer to THD vs. Load curve.	
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 70A peak, 1.3ms duration@277Vac 25°C <0.25A <sup>2</sup> s@230Vac, 25°C Cold Start	
	Leakage Current	0.75mAmax @240Vac 50Hz, IEC61347-1	
Output	Current Accuracy	±5%lo	
	Ripple Current <sup>[2]</sup>	Ip-p:5%lo LED 60%~100% Load	
	Setup Time	1.2s max	
	Output Overshoot	10%lo max & LED Load	
Protection	Output Over Voltage	115%Vomax	
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac	
	Over Temperature	Decrease output current until over temperature state is removed	
	Short Circuit	Auto recovery. The output recovers when short is removed.	
Environmental Condition	Operating Temperature	-55°C~+70°C; 10%RH~100%RH (See Derating Curve for more details) <sup>[3]</sup>	
	Storage Temperature	-60°C~+85°C; 5%RH~100%RH	
Others	MTBF	≥280,000 hours, measured at 220Vac input, 80% load and 25 °C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 220Vac input, 80% load and 45°C ambient temperature <sup>[4]</sup>	
	Case Temperature	90°Cmax <sup>[5]</sup>	
	Dimensions	Inch(L x W x H)	7.64x2.66x1.48
		Millimeter(L x W x H)	145x67.5x37.5
Net Weight	940g		

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Description

- Wide Input Voltage: 90~305Vac
- High Efficiency up to 87%
- APFC (Active Power Factor Correction): 0.99 Typical
- All-Around Protection: OVP/OTP/SHORT
- Lighting Protection
- Waterproof: IP67



## ■ Application

Factory, Arena, Stadium or other outdoor places, etc

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
AR-P100CC-C210-S-ND	90 ~ 305	105	30-50	2100	90,0	CE
AR-P100CC-C210-U-ND	90 ~ 305	105	30-50	2100	90,0	CE

Note: ND means non-dimming model

## ■ Specifications

Items		Specification
Input	Input Voltage	90~305Vac
	Input Frequency	47~63Hz
	Power Factor	>0.95@ @220Vac & Full-Load
	THD	≤20%@ @220Vac & Full-Load
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 100A peak, 1.3ms duration@277Vac 25°C <0.25A²s@230Vac, 25°C Cold Start
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1
Output	Current Accuracy	±5%Io
	Ripple Current <sup>[2]</sup>	50%Io-max
	Setup Time	3s-max@220Vac & Full-Load
	Output Overshoot	10%Io max & LED Load
Protection	Output Over Voltage	110%Vomax
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac
	Over Temperature	Decrease output current until over temperature state is removed
	Short Circuit	Auto recovery. The output recovers when short is removed.
Environmental	Operating	-40°C~+60°C 10%RH ~100%RH (See Derating Curve for more details) <sup>[3]</sup>



Condition	Temperature		
	Storage Temperature	-40°C ~ +85°C 5%RH ~ 100%RH	
Others	MTBF	≥280,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)	
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>	
	Case Temperature	90°Cmax <sup>[5]</sup>	
	Dimensions	Inch	4.0 in(φ) X 4.0 in(φ) X 2.0 in(H)
		Millimeter	102.5mm(L) X 102.5mm (W) X 51mm(H)
	Net Weight	1000g	

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Safety & EMC Compliance

Safety Category	Standard
UL8750	Light Emitting Diode(LED) Equipment for Use in Lighting Products
UL1012	Power Unit Other Than Class 2
IEC 61347-1	Lamp Controlgear Part 1: General and Safety Requirements
IEC 61347-2-13	Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear for LED Modules
EMI Standards	Notes
IEC 55015	Conducted emission test & Radiated emission test
IEC 61000-3-2	Harmonic current emissions; Class C (≥75% load)
IEC 61000-3-3	Voltage fluctuations & flicker
FCC Part 15	Class B
EMS Standards	Notes
IEC 61000-4-2	Electrostatic discharge (ESD)
IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
IEC 61000-4-4	Electrical fast transient (EFT)
IEC 61000-4-5	Surge immunity test L-N:4kV; LN-PE:4kV
IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
IEC 61000-4-8	Power frequency magnetic field test
IEC 61000-4-11	Voltage dips
IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

## ■ Description

- Wide Input Voltage: 90~305Vac
- High Efficiency up to 88.0%
- APFC (Active Power Factor Correction): 0.99 Typical
- All-Around Protection: OVP/OTP/SHORT
- Lighting Protection
- Waterproof: IP67



## ■ Application

Factory, Arena, Stadium or other outdoor places, etc

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
AR-P150CC-C310-S-ND	90 ~ 305	155	30-50	3100	88,0	CE
AR-P150CC-C310-U-ND	90 ~ 305	155	30-50	3100	88,0	CE

Note: ND means non-dimming model

## ■ Specifications

Items		Specification
Input	Input Voltage	90~305Vac
	Input Frequency	47~63Hz
	Power Factor	>0.95@ @220Vac & Full-Load
	THD	≤20%@ @220Vac & Full-Load
	Input Current	1.8 Amax@110Vac & Full-Load; 0.9Amax@220Vac & Full-Load
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 100A peak, 1.3ms duration@277Vac 25°C <0.25A²s@230Vac, 25°C Cold Start
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1
Output	Current Accuracy	±5%Io
	Ripple Current <sup>[2]</sup>	50%Io-max
	Setup Time	3s-max@220Vac & Full-Load
	Output Overshoot	10%Io max & LED Load
Protection	Output Over Voltage	110%Vomax
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac
	Over Temperature	Decrease output current until over temperature state is removed
	Short Circuit	Auto recovery. The output recovers when short is removed.
Environmental	Operating	-40°C~+60°C 10%RH ~100%RH (See Derating Curve for more details) <sup>[3]</sup>

Condition	Temperature			
	Storage Temperature	-40°C~+85°C 5%RH ~100%RH		
Others	MTBF	≥280,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>		
	Case Temperature	90°Cmax <sup>[5]</sup>		
	Dimensions	Inch	4.23in X 4.23in X 2.0in(H)	
		Millimeter	121.5mm(L) * 121.5mm (W)*51mm(H)	
Net Weight	1500g			

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

[2] The result differs according to different LED load characteristic.

[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

[4] refer to Lifetime vs. Tc curve .

[5] Tc point is marked on the product label. The label is also listed in the specification for approval.

## ■ Safety & EMC Compliance

Safety Category	Standard
UL8750	Light Emitting Diode(LED) Equipment for Use in Lighting Products
UL1012	Power Unit Other Than Class 2
IEC 61347-1	Lamp Controlgear Part 1: General and Safety Requirements
IEC 61347-2-13	Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear for LED Modules
EMI Standards	Notes
IEC 55015	Conducted emission test & Radiated emission test
IEC 61000-3-2	Harmonic current emissions; Class C (≥75% load)
IEC 61000-3-3	Voltage fluctuations & flicker
FCC Part 15	Class B
EMS Standards	Notes
IEC 61000-4-2	Electrostatic discharge (ESD)
IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
IEC 61000-4-4	Electrical fast transient (EFT)
IEC 61000-4-5	Surge immunity test L-N:4kV; LN-PE:4kV
IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
IEC 61000-4-8	Power frequency magnetic field test
IEC 61000-4-11	Voltage dips
IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

## ■ Description

- Wide Input Voltage: 90~305Vac
- High Efficiency up to 90%
- APFC (Active Power Factor Correction): 0.99 Typical
- All-Around Protection: OVP/OTP/SHORT
- Lighting Protection
- Waterproof: IP67



## ■ Application

Factory, Arena, Stadium or other outdoor places, etc

## ■ Model Selection

Model Number	Input Voltage Range (V)	Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Typical Eff. (%)	Certification
AR-P200CC-C210-S-ND	90 ~ 305	210	60-100	2100	90,0	CE
AR-P200CC-C210-U-ND	90 ~ 305	210	60-100	2100	90,0	CE

Note: ND means non-dimming model

## ■ Specifications

Items		Specification
Input	Input Voltage	90~305Vac
	Input Frequency	47~63Hz
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve.
	THD	>0.95@ @220Vac & Full-Load
	Input Current	≤20% @ @220Vac & Full-Load
	Inrush Current	65A peak, 1.2ms duration@230Vac 25°C 100A peak, 1.3ms duration@277Vac 25°C <0.25A²s@230Vac, 25°C Cold Start
	Leakage Current	1mAmax @277Vac 60Hz, UL8750 0.75mAmax @240Vac 50Hz, IEC61347-1
Output	Current Accuracy	±5%Io
	Ripple Current <sup>[2]</sup>	50%Io-max
	Setup Time	3s-max@220Vac & Full-Load
	Output Overshoot	10%Io max & LED Load
Protection	Output Over Voltage	110%Vomax
	Input Under Voltage	Shut Down When Vmains≤85±5Vac; Auto Recovery When Vmains≥90±5Vac
	Over Temperature	Decrease output current until over temperature state is removed
	Short Circuit	Auto recovery. The output recovers when short is removed.
Environmental	Operating	-40°C~+60°C 10%RH ~100%RH (See Derating Curve for more details) <sup>[3]</sup>

Condition	Temperature			
	Storage Temperature	-40°C~+85°C 5%RH ~100%RH		
Others	MTBF	≥280,000 hours, measured at 110Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)		
	Lifetime	≥50,000 hours, measured at 110Vac input, 80% load and 75°C Case temperature <sup>[4]</sup>		
	Case Temperature	90°Cmax <sup>[5]</sup>		
	Dimensions	Inch	5.8in X 5.8in X 2.0in(H)	
		Millimeter	148mm(L) * 148mm (W)*51mm(H)	
Net Weight	2000g			

Notes:

[1] Unless specified, all the test results are measured in the 25DegC room temperature.

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[3] Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. Beyond the safety work condition will not be recommended.

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