

KEY FEATURES

- Fully Isolated Plastic Case with IP67 Level
- Constant Current
- With Constant Current & Constant Voltage (C.C+C.V mode)
- Universal Input: 100-240 VAC
- With P.F.C. Function, PF>0.9
- Free Air Convection
- Protections: Over Load / Over Voltage / Short Circuit
- High Reliability & Double Layered PCB
- Ultra Compact Size: 4.92 x 2.36 x 1.38 Inches
- 2-Years Product Warranty



Ip67 CE

ELECTRICAL SPECIFICATIONS

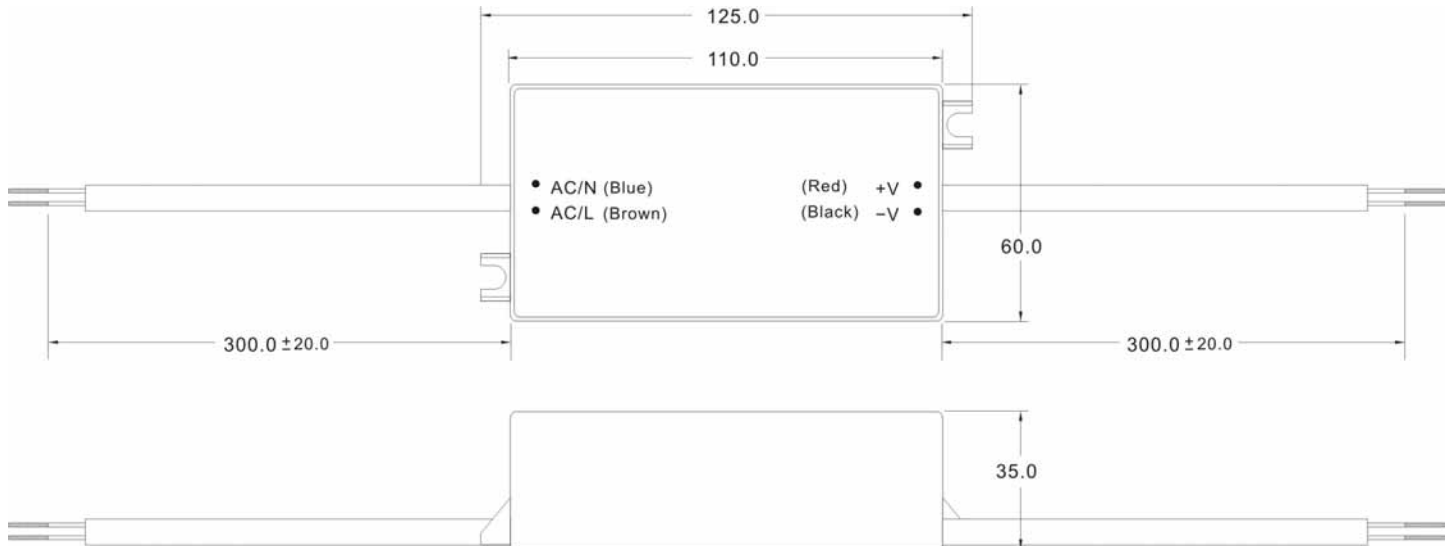
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No.	PLF30-13.5S	PLF30-24S	PLF30-48S
Max output wattage (W)	28.4W	33.6W	33.6W
Input	Voltage (Note2)		
	90-264 VAC		
	Frequency (Hz)		
	50 / 60 Hz		
	Power factor		
	PF>0.9 at Full load (115 VAC / 230 VAC)		
Output	Current (Full load)		
	0.8A max. (115 VAC) / 0.4A max. (230 VAC)		
	Inrush current		
	40 A max. (Cold Start at 230 VAC)		
	Leakage Current		
	< 0.7 mA max at 240 VAC / 63 Hz		
	Voltage (V.DC.)		
	13.5V 24V 48V		
Constant Current Operation Voltage (max) (CC Mode) (Note3)			
11~13.5VDC 17~ 24VDC 33.5~ 48VDC			
Voltage Tolerance			
±10%			
Current (mA) (CC Mode) (at 230VAC.)			
2100 1400 700			
Minimum Load (mA)			
1900 1050 525			
Line Regulation (115-230VAC) (typ.)			
±4%			
Load Regulation (typ.)			
±5%			
Ripple & Noise (max)			
2.4Vp-p 2.4Vp-p 4.8Vp-p			
Efficiency (at 230VAC.)(typ)			
85% 88% 89%			
Protection	Over current protection		
	Auto recovery		
	Over voltage protection		
Zener diode clamp			
Short circuit protection			
Auto recovery			
Isolation	Input-Output (V.AC)		
	4000V		
	Input-FG (V.AC)		
1880V			
Output-FG (V.AC)			
500V			
Environment	Operating temperature		
	-30°C...+70°C (with derating)		
	Storage temperature		
	-40°C...+85°C		
	Temperature coefficient		
0.02%/°C			
Humidity			
95% RH			
MTBF			
>583,000 h @ 25°C (MIL-HDBK-217F)			
Physical	Dimension (L x W x H)		
	4.92 x 2.36 x 1.38 Inches (125.0 x 60.0 x 35.0 mm) Tolerance ±0.5 mm		
	Weight		
300 g			
Cooling method			
Free air convection			
Safety	Agency Approvals		
Design refer to UL8750, EN61347-2-13 (Pending)			
EMC	EMI (Conducted & Radiated Emission)		
	Design refer to EN 55015 (Pending)		
	EMS (Noise Immunity)		
Design refer to EN 61547 (Pending)			
Harmonic Current			
Design refer to EN 61000-3-2(at Full Load) · EN 61000-3-3 (Pending)			

Note:

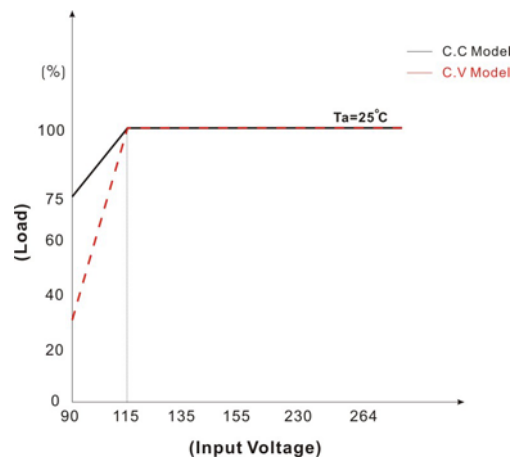
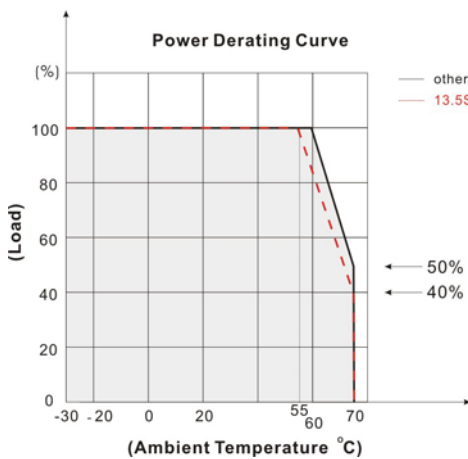
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Please check the derating curve for more details.
3. Input Voltage=115 or 230 VAC. This is the suitable operation region for LED related application. but please reconfirm special electrical requirements for some specific system design.

MECHANICAL DIMENSION (Top View)



PIN#	SINGLE
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT

DERATING



BLOCK DIAGRAM

