

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
- 3-Years Product Warranty



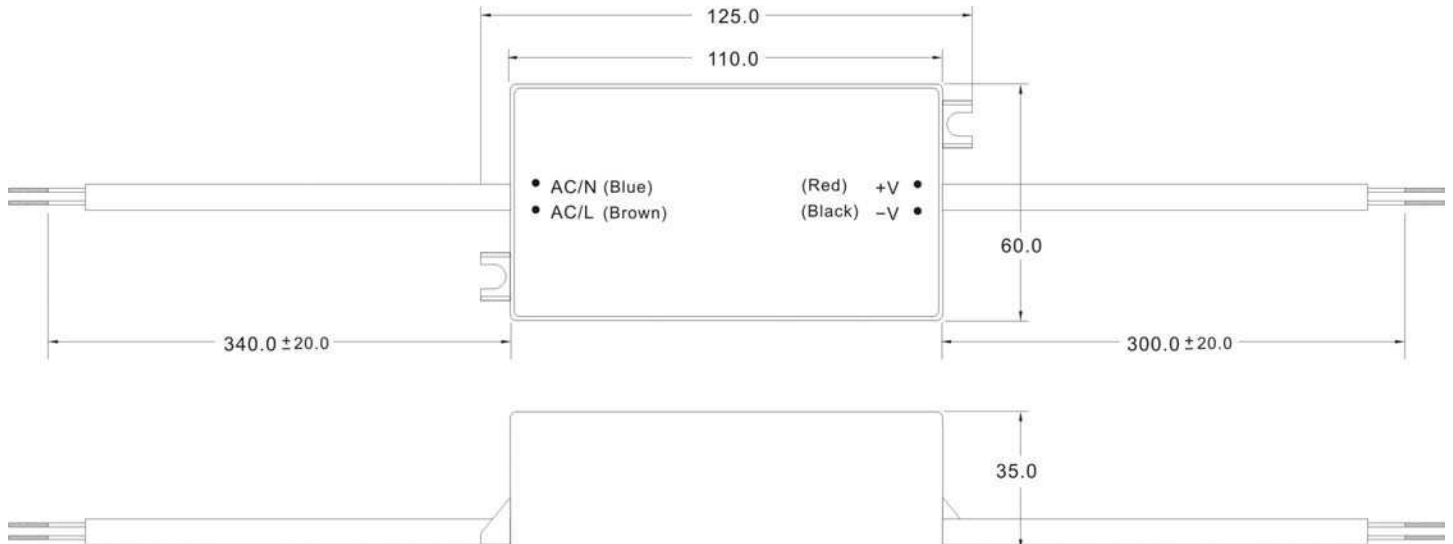
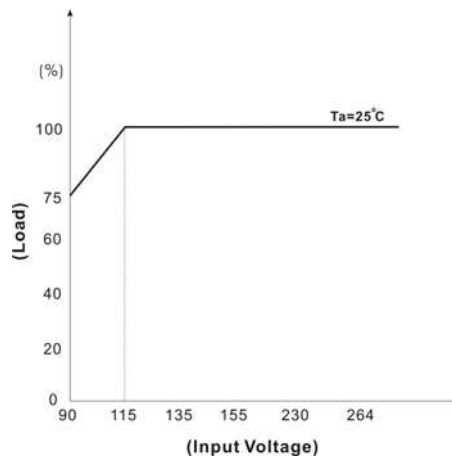
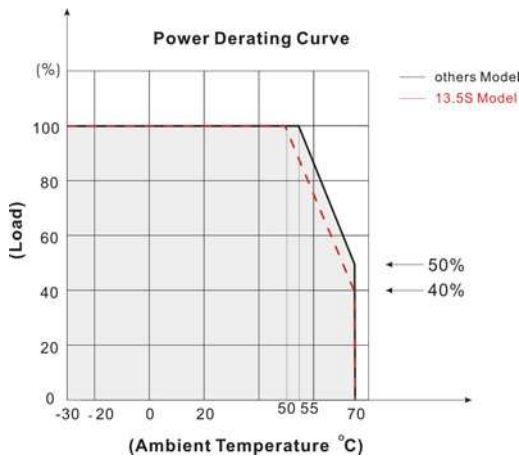
ELECTRICAL SPECIFICATIONS

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

Model No.	PLF60-13.5S 4200	PLF60-24S 2400	PLF60-28S 1400	PLF60-28S 2100	PLF60-48S 1050	PLF60-54S 700	PLF60-54S 1050	
Max output wattage (W)	60W	60W	39.2W	60W	60W	37.8W	60W	
Input	Voltage (Note2)		90-264 VAC					
	Frequency (Hz)		50 / 60 Hz					
	Power factor		PF>0.9 at Full load (115 VAC / 230 VAC)					
	Current (Full load)		0.8A max. (115 VAC) / 0.4A max. (230 VAC)					
	Inrush current		50 A max. (Cold Start at 230 VAC)					
	Leakage Current		< 0.7 mA max at 240 VAC / 63 Hz					
Output	Voltage (V.DC.)	13.5V	24V	28V	28V	48V	54V	54V
	Constant Current Operation Voltage (max) (CC Mode) (Note3)	11~13.5 VDC	17~ 24 VDC	21~28 VDC	21~28 VDC	33.5~48 VDC	38~54 VDC	38~54 VDC
	Voltage Tolerance	±10%						
	Current (mA) (CC Mode) (at 230VAC.)	4200	2400	1400	2100	1050	700	1050
	Minimum Load (mA)	3570	1700	1400	1400	825	700	700
	Line Regulation (115-230VAC.) (typ.)	±4%						
	Load Regulation (typ.)	±5%						
	Ripple & Noise (max)	4Vp-p	4.5Vp-p	5Vp-p	5Vp-p	5Vp-p	5Vp-p	5Vp-p
Efficiency (at 230VAC.) (typ)	85%	87%	89%	89%	89%	89%	89%	
Protection	Over current protection	Auto recovery						
	Over voltage protection	Zener diode clamp						
	Short circuit protection	Auto recovery						
Isolation	Input-Output (V.AC)	3750V						
	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	410 g						
	Cooling method	Free air convection						
Safety	Agency Approvals	UL8750 · IEC / EN 61347-2-13 · IEC / EN 61347-1						
EMC	EMI (Conducted & Radiated Emission)	EN 55015						
	EMS (Noise Immunity)	EN 61547						
	Harmonic Current	EN 61000-3-2(at Full Load) · EN 61000-3-3						

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)

DERATING


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

BLOCK DIAGRAM
