

## KEY FEATURES

- Open Frame LED Power Supply
- With Constant Current & Constant Voltage (C.C+C.V mode)
- Universal Input: 100-277 VAC
- With P.F.C. Function, PF>0.9
- High Efficiency up to 90%
- Free Air Convection
- Protections: Over Load / Over Voltage / Short Circuit
- High Reliability & Double Layered PCB
- Ultra Compact Size: 5.0 x 2.5 x 1.3 Inches
- 3-Years Product Warranty



## ELECTRICAL SPECIFICATIONS

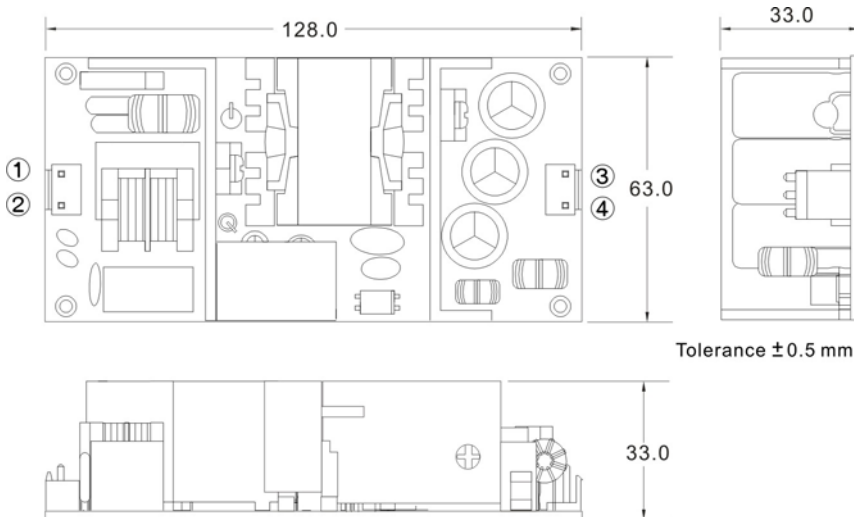
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No.	ZLF100-24S	ZLF100-36S	ZLF100-54S
Max output wattage ( W )	96W	96W	95.58W
Input	Voltage (Note2)		
	90-295 VAC		
	Frequency (Hz)		
	50 / 60 Hz		
	Power factor		
	PF>0.9 at Full load (115 VAC / 230 VAC)		
Current (Full load)			
1.4A max. (115 VAC) / 0.7A max. (230 VAC)			
Inrush current			
60 A max. (Cold Start at 230 VAC)			
Leakage Current			
< 0.7 mA max at 240 VAC			
Output	Voltage (V.DC.)		
	24V		
	36V		
	54V		
	Voltage ADJ Range Setup		
	22 ~ 27V		
	33 ~ 40V		
	49 ~ 58V		
	Constant Current Operation Voltage (max) (CC Mode) (Note3)		
	15.6~ 24 VDC		
	23.4~36 VDC		
35.1~54 VDC			
Voltage Tolerance			
±10%			
Preset Current (mA) (CC Mode)			
3850			
2450			
1750			
Current Adjustment Range (mA) (CC Mode)			
2600~4000			
1720~2650			
1150~1770			
Minimum Load (mA)			
2600			
1720			
1150			
Line Regulation (100-277VAC) (typ.)			
±4%			
Load Regulation (Min-Max) (typ.)			
±5%			
Ripple & Noise (max)			
2.7Vp-p			
3.6Vp-p			
5Vp-p			
Efficiency (at 230VAC.) (typ)			
89%			
90%			
90%			
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			
>530,000 h @ 25°C (MIL-HDBK-217F)			
Physical	Dimension (L x W x H)		
	6.44 x 2.79 x 1.50 Inches (163.7 x 71.0 x 38.0 mm) Tolerance ±0.5 mm		
	Weight		
g			
Cooling method			
Free air convection			
Safety	Agency Approvals		
UL8750、IEC / EN 61347-2-13、IEC / EN 61347-1 (Pending)			
EMC	EMI (Conducted & Radiated Emission)		
	EN 55015 (Pending)		
	EMS (Noise Immunity)		
	EN 61547 (Pending)		
Harmonic Current			
EN 61000-3-2(at Full Load)、EN 61000-3-3 (Pending)			
Surge			
2KV L-L, 4KV L-E			

**Note:**

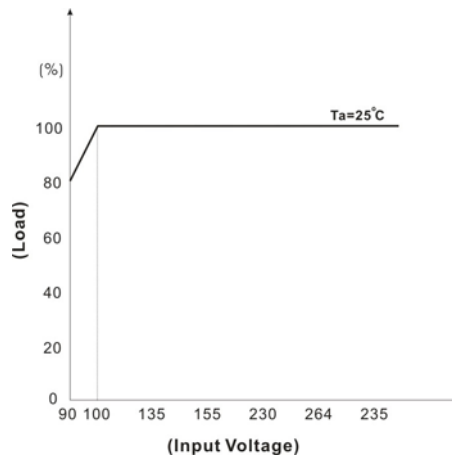
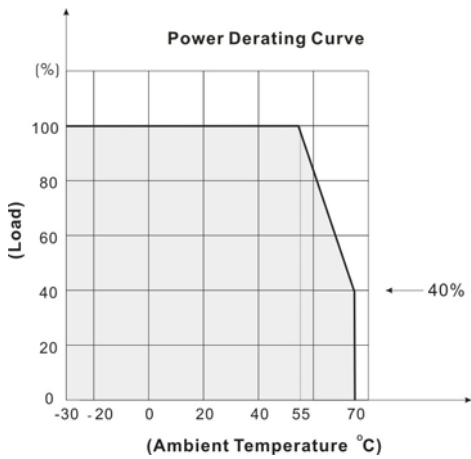
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Please check the derating curve for more details.
3. Input Voltage=115 or 230 VAC. This is the suitable operation region for LED related application.but please reconfirm special electrical requirements for some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

