

KEY FEATURES

- IP66/67 Design for Indoor or LED Outdoor Installations
- With Constant Current & Constant Voltage (C.C+C.V mode)
- 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
- Suitable for LED lighting and moving sign applications
- Ultra Compact Size: 4.76 x 2.36 x 1.38 Inches
- 3-Years Product Warranty



IP66/67 CE

ELECTRICAL SPECIFICATIONS

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

Model No.	QLF100-24S	QLF100-36S	QLF100-48S	QLF100-54S	
Max output wattage (W)	96W	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 (115 VAC) / 0.7A (230 VAC)				
	Inrush current 60 A max.				
	Leakage Current < 0.7 mA max at 240 VAC				
Output	Voltage (V.DC.)	24V	36V	48V	54V
	Voltage ADJ Range Setup (CV Mode)	22 ~ 27V	33 ~ 40V	44 ~ 52V	49 ~ 56V
	Constant Current Operation Voltage (max) (CC Mode) (Note3)	15.6~ 24 VDC	23.4~36 VDC	31.2~48 VDC	35.1~54 VDC
	Voltage Tolerance	±10%			
	Preset Current (mA) (at IP66) (CC Mode) (at 230 VAC)	3500	2100	1750	1400
	Current Adjustment Range (mA) (CC Mode)	2600~4000	1720~2650	1300~2000	1150~1770
	Preset Current (mA) (at IP67) (CC Mode) (fixed) (Note4) (at 230 VAC)	3500 (2600~4000)	2100 (1720~2650)	1750 (1300~2000)	1400 (1150~1770)
	Minimum Load (mA)	2600	1720	1300	1150
	Line Regulation (typ.)	±4%			
	Load Regulation (Min-Max) (typ.)	±5%			
Ripple & Noise (typ.) (Note1)	2.7Vp-p	5Vp-p			
Efficiency (at 230VAC / Full Load)(typ)	89%	90%	89%	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	>450,000 h @ 25°C (MIL-HDBK-217F)				
Physical	Dimension (L x W x H)	4.76 x 2.36 x 1.38 Inches (120.9 x 60.0 x 35.0 mm) Tolerance ±2mm			
	Weight	600 g			
	Cooling method	Free air convection			

Model No.		QLF100-24S	QLF100-36S	QLF100-48S	QLF100-54S
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-N, 4KV L N-FG			

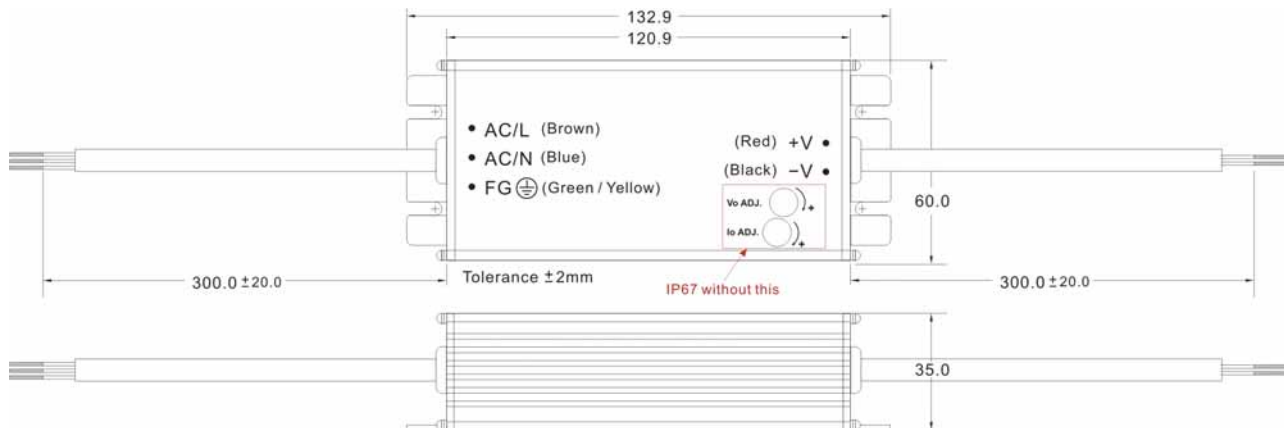
Note:

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.
- 4.Please contact us for more information.

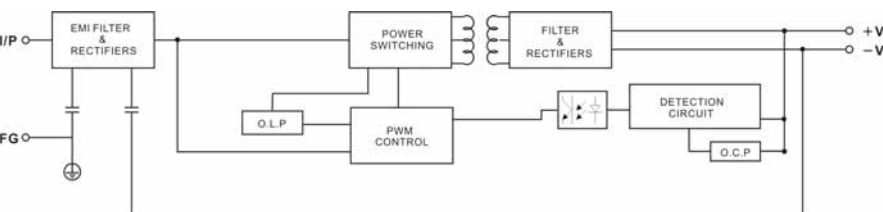
This series has IP66 and IP67, when you place order, please be noted as ordering Part No.

Model No.		QLF100-24S	QLF100-36S	QLF100-48S	QLF100-54S
Ordering Part No	IP66	QLF100-24S-IP66	QLF100-36S-IP66	QLF100-48S-IP66	QLF100-54S-IP66
	IP67	QLF100-24S-IP67	QLF100-36S-IP67	QLF100-48S-IP67	QLF100-54S-IP67

MECHANICAL DIMENSION (Top View)



BLOCK DIAGRAM



ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm

Customer screws into the length of the case no higher than 0.5mm

(Namely screw length for load plate thickness plus 2.5mm

DERATING

If the output is not connected LEDs, the input voltage must be greater than 180VAC.

