

# PLN-100 Series

## 100W Single Output LED Lighting PSU



### FEATURES

- Universal AC input / full range
- Short circuit / Overload / Over-voltage / Over-temperature protections
- Built-in active PFC function
- IP64 design for indoor or outdoor installations
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- 20V, 27V & 36V versions available

### ENVIRONMENTAL

Operating Temp: -30 to +50°C (with de-rating)

Storage Temp: -40 to +80°C

### SAFETY / EMC

UL1310 Class 2  
EN60950-1  
CAN/CSA C22.2 No. 223-M91 (except 48V)  
EN61347-1, EN61347-2-13  
IP64 approved

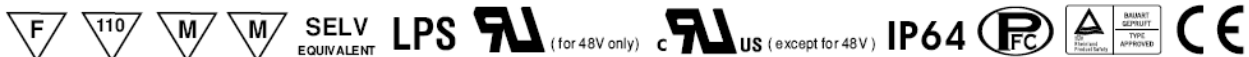
EN55015  
EN55022 (CISPR22) Class B  
EN61000-3-2,-3, EN61000-4-2, 3, 4, 5, 6, 8, 11  
ENV50204  
EN55024  
EN61547  
Light industry level, criteria A

### ELECTRICAL SPECIFICATIONS

Model No.	PLN-60-XX			
XX	12	15	24	48
AC Input	90-264VAC, Single Phase, 47-63Hz			
Power Factor	PF>0.9/230Vac		PF>0.98/115Vac at full load	
DC Output				
Voltage	12V	15V	24V	48V
Current	0-5A	0-5A	0-4A	0-2A
Rated Power	60W	75W	96W	96W
Ripple & noise (p-p) (2)	150mV	150mV	150mV	200mV
Voltage Tolerance (3)	±3.0%	±3.0%	±3.0%	±2.0%
Line Regulation	±1.0%			
Load Regulation	±2.0%			
Overload	95-100%			
	Constant I limiting. Recovers automatically when fault removed.			
Over Voltage	13-16V	16.5-20V	27-34V	52-64V
Over Temperature	Shut down output voltage. Re-power on to recover.			
Dimensions	200(L) x 70.5(W) x 35(H)mm			
Weight	0.52Kg			

**Notes:**

1. All parameters *NOT* specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
2. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1µF and 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line and load regulation.



Specifications subject to change without notice

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