

# PLN-30 Series

## 30W Single Output LED Lighting PSU



### FEATURES

- Universal AC input / full range
- Built-in constant current limiting circuit with adjustable OCP level
- 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
- 9V, 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  
CAN/CSA C22.2 No. 223-M91 (except 48V)  
EN61347-1  
EN61347-2-13  
IP64 approved

EN55015  
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-30-XX                        |      |                             |         |
|--------------------------|----------------------------------|------|-----------------------------|---------|
| XX                       | 12                               | 15   | 24                          | 48      |
| AC Input                 | 90-264VAC, Single Phase, 47-63Hz |      |                             |         |
| Power Factor             | PF>0.9/230Vac                    |      | PF>0.95/115Vac at full load |         |
| DC Output                |                                  |      |                             |         |
| Voltage                  | 12V                              | 15V  | 24V                         | 48V     |
| Current                  | 0-2.5A                           | 0-2A | 0-1.25A                     | 0-0.63A |
| Rated Power              | 30W                              | 30W  | 30W                         | 30.24W  |
| Ripple & noise (p-p) (2) | 2V                               | 2.6V | 2.6V                        | 3.7V    |
| Voltage Tolerance (3)    | ±10%                             |      |                             |         |
| Line Regulation          | ±3%                              |      |                             |         |
| Load Regulation          | ±10%                             |      |                             |         |

|              |   |        |        |        |
|--------------|---|--------|--------|--------|
| Overload     | 110-120%  |        |        |        |
|              | Constant I limiting. Recovers automatically when fault removed. |        |        |        |
| Over Voltage | 14-16V  | 17-22V | 27-34V | 53-63V |

Shut down output voltage.  
Re-power on to recover.

Over Temperature  
Shut down output voltage.  
Re-power on to recover.

Dimensions 145(L) x 47(W) x 30(H)mm

Weight 0.22Kg

- 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

### Safety Power Group Ltd

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565

Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com

web: www.safety-power.com