



**90W Open Frame LED Driver
PSM090-240P Constant Voltage LED Power Supply**



Features

- Low Profile Design
- OVP, OCP, OTP and Short-Circuit Protection
- Power Factor Correction
- UL 8750 Compliant
- Constant Voltage
- 100 to 277V Input Range
- High Efficiency
- 3 Years Warranty

Applications

- Indoor Lighting

Safety Approvals

- cUL/UL

Mechanical Characteristics

- Length: 169mm (6.65in)
- Width: 61mm (2.4in)
- Height: 31mm (1.22in)
- Weight: 368g (13oz)

Output Specifications

| Model | DC Output Voltage Range | | Typical Output Voltage | Output Current | | Max Power |
|-------------|-------------------------|------|------------------------|----------------|-------|-----------|
| | Min. | Max. | | Min. | Max. | |
| PSM090-240P | 22.8V | 25.2 | 24V | 0.2A | 3.75A | 90W |

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

INPUT:**AC Input Voltage Range**

90 to 304VAC

AC Input Voltage Rating

100 to 277VAC

Leakage Current

<1mA at 277VAC and maximum load

AC Input Frequency

47-63Hz

AC Inrush Current

40A at 115VAC and maximum load

80A at 277VAC and maximum load

OUTPUT:**Total Output Power**

90W

Efficiency

>85% at 115/277VAC and maximum load

Power Factor

>0.95 at 115VAC and maximum load

>0.90 at 230VAC and maximum load

Ripple

<240mVp-p at maximum load

Setup Time

4 seconds minimum at 100/277VAC and max load

Hold Up Time

8mS max. at 100/277VAC, 15mS max at 277VAC

ENVIRONMENTAL:

Operating Temperature -10 to 40°C

Storage Temperature -20 to 85°C

Operating Humidity 20 to 90%

Storage Humidity 10 to 95%

Warranty

5 Years

EMC

EN55015

Immunity

EN61000-4-2

EN61000-4-3

EN61000-4-4

EN61000-4-5

EN61000-4-6

EN61000-4-8

EN61000-4-11

EN61000-3-2

Isolation Test (HI-POT)

Primary to Secondary: 3000VAC, <10mA

Insulation Resistance

Primary to Secondary: 500VDC, >10 M ohm

FEATURES:**Input Current Protection**

The input power line will be fused with a 3A/350VAC fuse

Overload Protection

Auto-recover, Hiccup mode

Overvoltage Protection

Output should not exceed 35V, auto shut down

Over Temperature Protection

Automatic shut-down and latch off

MTBF

30K Hours minimum at max load and ambient 25°C

AC Input Connector (CN 1)

DINKLE: EK500V-03P

Mating: Solid or Stranded wire 18~24 AWG

DC Output Connector (CN2)

JST B6P – VH or equivalent

Pin # Assignment

1,2,3 -V

4,5,6 +V

