



**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

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**INPUT:****AC Input Voltage Range**

90 to 304VAC

**AC Input Voltage Rating**

100 to 277VAC

**Leakage Current**

&lt;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**

&gt;85% at 115/277VAC and maximum load

**Power Factor**

&gt;0.95 at 115VAC and maximum load

&gt;0.90 at 230VAC and maximum load

**Ripple**

&lt;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, &lt;10mA

**Insulation Resistance**

Primary to Secondary: 500VDC, &gt;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

