



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





**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

