



GOLDEN PACIFIC ELECTRONICS, INC.

16800 E. Gale Avenue  
City of Industry, CA 91745  
www.gpelectronics.com

Customer:

Customer Model Number:

Product Part Number: PS-1290APL09-4

## 1. Feature :

- ◆ Input : Universal 100 ~ 240 Vac / 47 ~ 63 Hz Input, without any slide switch.
- ◆ Output : +12V / 0 ~ 9A
- ◆ Case Dimension : 168.1(L) \* 65.9(W) \* 39(H) mm  $\pm$  1 mm
- ◆ Efficiency : Eff (av)  $\geq$  88%
- ◆ Safety : CUL / UL / GS / PSE / BSMI / RCM
- ◆ EMI : CE / FCC Class B ; Conduction & Radiation Met.
- ◆ Protection : OVP (Over Voltage Protection) 、 SCP (Short Circuit Protection) 、  
OCP (Over Current Protection) 、 OTP (Over Temperature Protection)
- ◆ High frequency design , less power consumption.
- ◆ Suitable for usage at Telecommunication, Computer, Industrial Controller, & OA System.
- ◆ Meet Energy Star VI / Erp ( Stage 2 ) / MEPS V.

## 2. Input :

2.1 Voltage	Universal 100 ~ 240Vac, single phase
2.2 Frequency	47 ~ 63 Hz
2.3 Current	1.6A Max.
2.4 Inrush Current	80A Max. / 230Vac (Cold start at 25 °C , full load)
2.5 Efficiency	Eff (av) $\geq$ 88% (At 115 Vac & 230 Vac)
2.6 Power Consumption	Pi $\leq$ 0. 21 W ( At 230Vac & No load)
2.7 Power Factor (PF)	Pi $\geq$ 0. 9 ( At Full load)

$$\text{※Eff (av)} = \frac{E1 + E2 + E3 + E4}{4}$$

E1=efficiency with 25% rated load ; E2= efficiency with 50% rated load  
E3=efficiency with 75% rated load ; E4= efficiency with 100% rated load

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Revision: 1

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### 3. Output :

3.1 DC Output	Voltage	+12.00V $\pm$ 5%
	Current	9A Max.
	Regulation	11.4Vmin. ~ 12.0Vtyp. ~ 12.6Vmax.
	Ripple & Noise	120mV Max.
	Total Power	108W Max.

Remark : For ripple & noise measurement, use a 20MHz bandwidth frequency oscilloscope, and add a 0.1 $\mu$ F multilayer Cap. and a Low ESR Electrolytic Cap. (10  $\mu$ F) at output connector terminals. (At nominal line voltage, full load)

### 4. Protection :

4.1 Over Voltage Protection (OVP)	V out * 150% Max.
4.2 Short Circuit Protection (SCP)	Automatic recovery after short-circuit fault being removed
4.3 Over Current Protection(OCP)	I out * 170% Max.

Remark : When Short Circuit Protection or Over Current Protection is activated, the power supply will shutdown automatically. Once the abnormal condition resulting in the failure being removed, the power supply will restart accordingly. When Over Voltage Protection is activated, the power supply will latch.

### 5. Safety 、EMI and EMC Requirement :

#### 5.1 Safety Requirement

a. Safety : CUL / UL / GS / PSE / BSMI / RCM

b. Dielectric Strength : Cut off current 10mA

(1)	Primary to Secondary	3000Vac for 1 Minute
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c. Insulation Resistance :

(1)	Primary to Secondary	10 M ohm for 500Vdc
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5.2 EMI Requirement : CE / FCC Class B ; Conduction & Radiation Met.

5.3 Leakage Current : Less than 3.5mA

5.4 Grounding Test : Resistance 0.1ohm Max. @ 25A



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## 6. Operation and Environment Performance :

### 6.1 Temperature Range

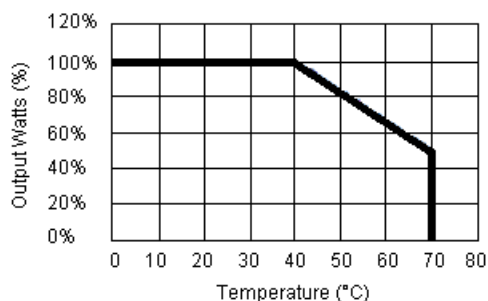
Operating	+ 0°C ~ + 40°C
Storage	- 20 °C ~ + 80 °C

### 6.2 Humidity Range (Non-condensing)

Operating	20% ~ 80% RH
Storage	10% ~ 90% RH

### 6.3 Cooling : By natural air.

Extended operating temperature range:



## 7. M.T.B.F. : 300,000Hrs.(Calculated Hours at 25°C , By Telcordia SR-332)

## 8.Mechanical :

8.1 Weight : 630g Typical

8.2 Cable Type : Black UL1185 14AWG  
( Wire + Plug )

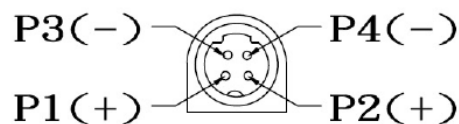
Plug : 4PIN DIN

8.3 Cable Length : 1000mm

8.4 Case Dimension : 168.1mm(L)\*65.9mm(W)\*39mm(H) ± 1 mm

8.5 Material Flammability : UL 94V-0

8.6 External Appearance : As drawing below ( Scale → mm )

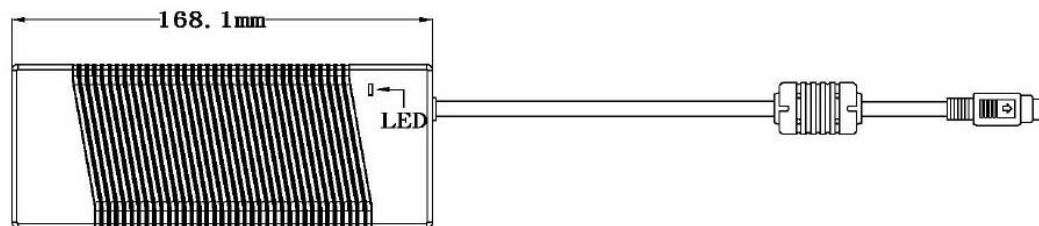


Output Cable Plug Pin Assignment

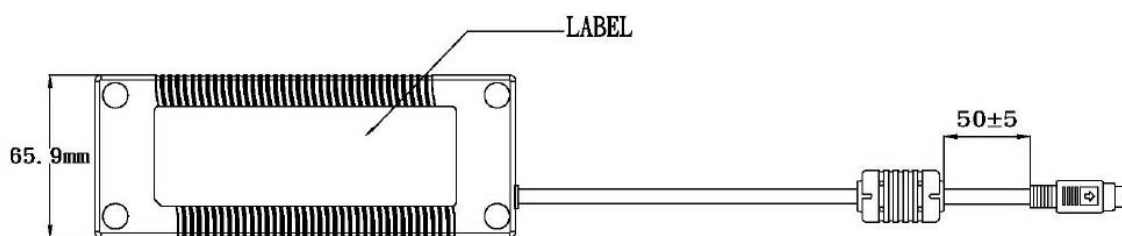
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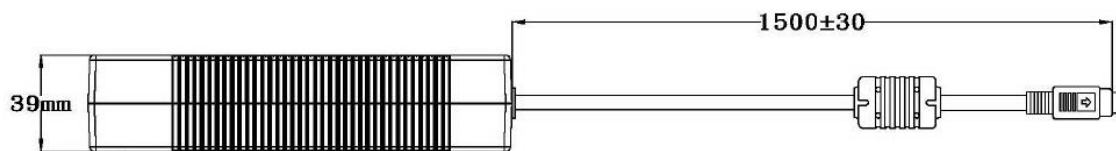
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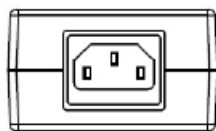
TOP-VIEW



BOTTOM-VIEW



SIDE-VIEW



FRONT-VIEW

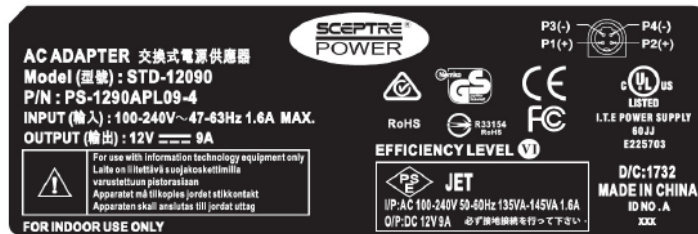
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Nameplate:

100%



"XXX"

Label supplier's code.

It is accurate that the number  
of words depends on the real  
finished product.

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