

# AC → DC SWITCHING POWER SUPPLY

# **RPH1240D SERIES**

# All the patents are held accountable counterfeiting.

### **Features**



- UL508, EN 62368 approved
- Output Voltage/Current/Temperature Digital Display.
   Intelligent Detection of Output Error: Relay and LCD Alarm Flickering
- Standard/Din Rail Mounting Dual Purpose
- Easy mounting (one-step installation)
- Full Range Input with PFC
   Comply with High Efficiency Power 80Plus Criterion
   92% High Efficiency
   Build-in output stability monitor

- Split rail & Series connection possible
   Convection cooled high reliability
- 100% burn-in test

90~264VAC

47~63Hz

95% Min.

120~380VDC

20A/110VAC

40A/220VAC

• 2 years warranty • Output modify range: 5V~60VDC

DIMENSIONS:100(H)\*110(D)\*60(W)mm WEIGHTS: 740g

### **General specifications**

#### **INPUT**

Input range

Input frequency Inrush current (25°C)

**Power factor** 

#### **OUTPUT**

Hold-up time **Short protection** Over load protection

Autorecovery Automatic power limited

16ms

1A power ready relay contacts are built in VAT module.

## **Detail specifications**

#### 240 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) <sub>1</sub>			Ripple	Line	Load	Efficiency	O.V.P
		Min.	Rated	Max.	Noise 4	REG.	REG. <sub>3</sub>	5	0.v.P
RPH1240D-24CED	V: +24V ±10%	0A	10A	10A	240mV	±1%	±1%	91% Ref.	31.4 ~ 34.7V
RPH1240D-36CED	V : +36V ±10%	0A	6.7A	6.7A	360mV	±1%	±1%	92% Ref.	47.8 ~ 53.2V
RPH1240D-48CED	V : +48V ±10%	0A	5A	5A	480mV	±1%	±1%	91% Ref.	64.6 ~ 71.4V

#### Please Choose Fit Function, And Fill In The Blank With Suitable Words.

Order Model:RPH1240D-24C □ D

Optional Function:

Terminal Block: "B": PCB Spring Terminal Block with Voltage, Current, Temperature Monitor ◀

"E": Mini Terminal Block with Voltage, Current, Temperature Monitor

Intelligent Monthor Alam Instructions:

•Voltage alarms when output voltage value is not in the range of -10% to +10%.

Voltage LCD flickering, open circuit for relay.

•Current LCD flickering, open circuit for relay.

\*Current LCD flickering, open circuit for relay.

\*Emperature Larms when monttor panel temperature is lower than -20 or higher than 75 degrees Celsius.

\*Temperature LCD flickering, open circuit for relay.

\*Relay alarm is normally closed contact. (For the two contacts, short circuit when power source is normal; open circuit when power source is abnormal.)

### **CE Standards**

EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3, (EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11) Heavy Industry level, criteria A LVD: EN 62368-1

# Safety Standards



CHUS UL 508 APPROVAL



CE

Marking

#### **Environments**

**Operating Temperature** Operating Humidity Storage Temperature Vibration

-10 ~ 60°C, Ambient 20 ~ 90% RH, No Condensing -20 ~ 85°C, Ambient 2G, 10~500Hz, 3 axes

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### NOTE

- 1. Each output can provide up to maximum load, but total load can not exceed rated output power.
- 2. Line regulation is measured from low line to high line at rated load.
- 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
- 4. Ripple & Noise are measured with 20MHz oscilloscope at 220VAC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.
- 5. Efficiency is measured at rated load and 220VAC input.
- 6. Hold-up time is measured at rated load and 220VAC input.
- 7. Output Voltage Adjustable is measured on 5% of rated load.
- 8. The product uses metal enclosure for cooling. To ensure product lifespan, a clearance of at least 1 cm at the side of the product, 2 cm at top and bottom of the product should be maintained when installing.
- 9. Reign Power reserve the right to change specifications at any time without notice.

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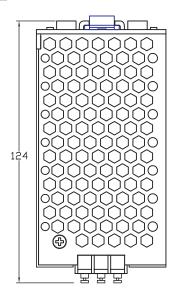


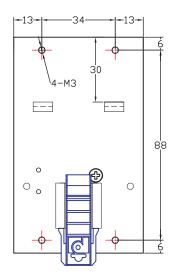


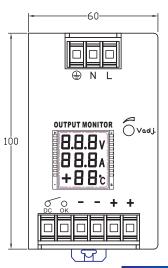
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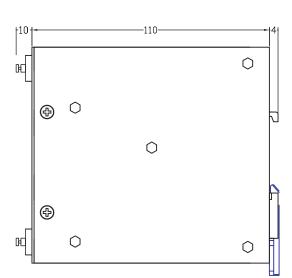
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#### **Mechanical Details**









# **Panel Designation**

CASE NO.: RPH1240DD

UNIT: mm

**DIMENSION: 100(H)\*110(D)\*60(W)** 

MATERIAL: ALUMINUM

**COLOR: ORIGINAL ALUMINUM** 

Symbol	Description				
L	Line Terminal Of AC Input (No Polarity At DC Input)				
N	Neutral Terminal Of AC Input (No Polarity At DC Input)				
<b>(4)</b>	Grounding (Earth)				
+	DC Positive Output Terminal				
-	DC Negative Output Terminal				
OUTPUT MONITOR	Voltage/Current/Temperature Display				
V adj.	Potentiometer For Output Voltage				
DC OK	Contact of power functionality relay. Short-circuit is normal; Open circuit is abnormal.				

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