

**FUS-960D-xxSMT**  
**960W** AC/DC switching power supply



**GREEN POWER**

- 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.
- Models with output voltage lower than 130VDC are build-in output stability monitor.
- Split rail & Series connection possible.
- Fan cooling.
- 100% burn-in test.
- 2 years warranty.
- Output modify range: 5V~60VDC.

**General specifications**

Input		Output	
Input range	90~264VAC	Hold-up time	16ms
	120~380VDC	Short protection	Re-power on to recover
Input frequency	47~63Hz	Over load protection	Short-circuit protection
Inrush current (25°C)	20A/110VAC 40A/220VAC	1A power ready relay contacts are built in VAT module	
Power factor	95% Min.		

**Detail specifications**

Model	O/P Volt Adj. $\pm$ %	Load (current) <b>1</b>			Ripple & Noise <b>4</b>	Line REG. <b>2</b>	Load REG. <b>3</b>	Efficiency <b>5</b>	O.V.P
		Min.	Rated	Max.					
FUS-960D-24SMT	V : +24V $\pm$ 10%	0A	40A	40A	240mV	$\pm$ 1%	$\pm$ 1%	91% Ref.	31.4 ~ 34.7V
FUS-960D-36SMT	V : +36V $\pm$ 10%	0A	26.6A	26.6A	360mV	$\pm$ 1%	$\pm$ 1%	92% Ref.	47.8 ~ 53.2V
FUS-960D-48SMT	V : +48V $\pm$ 10%	0A	20A	20A	480mV	$\pm$ 1%	$\pm$ 1%	92% Ref.	64.6 ~ 71.4V

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**Intelligent monitor alarm instructions**

- Voltage alarms when output voltage value is not in the range of -10% to +10%.
- Voltage LCD flickering, open circuit for relay.
- Current alarms when output current value is over 100%.
- Current LCD flickering, open circuit for relay.
- Temperature alarms when monitor panel temperature is lower than -20 or higher than 65 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 55024,  
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 62368-1:2014

**Safety standards**



CE marking

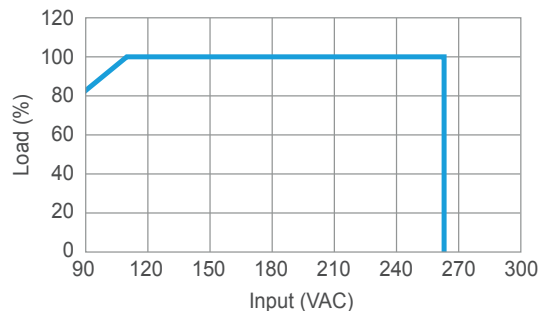


**UL508 APPROVAL**  
(under request)

**Environments**

<b>Operating Temperature</b>	-10 ~ 60°C, Ambient
<b>Operating Humidity</b>	20 ~ 90% RH, No Condensing
<b>Storage Temperature</b>	-20 ~ 85°C, Ambient
<b>Vibration</b>	2G, 10~500Hz, 3 axes

**Derating curve**



**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 1cm at the side of the product, 2cm at top and bottom of the product should be maintained when installing.
9. Fullwat<sup>®</sup> reserve the right to change specifications at any time without notice.

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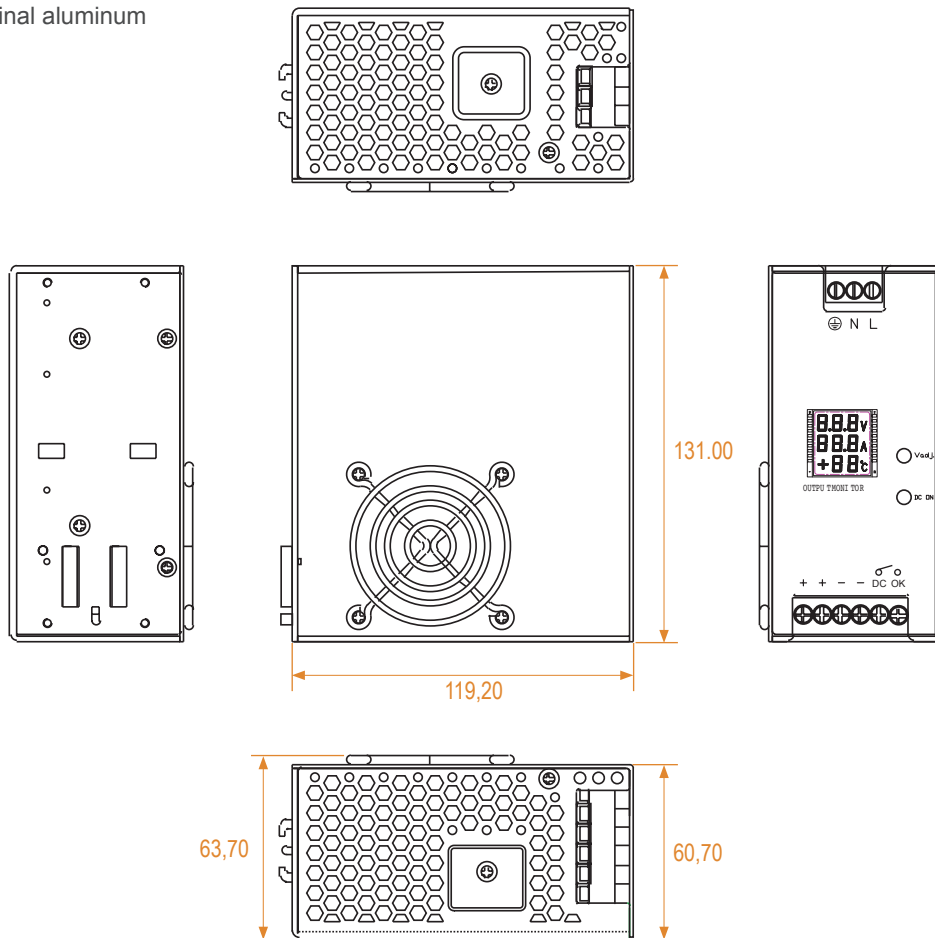
**Mechanical details**

**Dimension:** 131(H) x 119.2(D) x 63.7(W)

**Material:** Aluminum

**Color:** Original aluminum

**Units:** mm



**Panel designations**

Single	Description
L	Line terminal Of AC Input (No polarity At DC Input)
N	Neutral terminal Of AC Input (No polarity At DC Input)
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
<b>OUTPUT MONITOR</b>	Voltage/Current/Temperature Display
<b>V ADJ.</b>	Potentiometer for output Vvoltage
<b>DC ON</b>	Blue LED indicator
<b>DC OK</b>	Contact of power functionality relay. Short-circuit is normal; Open circuit is abnormal.