

FUS-120D-xxSMT

120W 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.
- 91% high efficiency.
- Build-in output stability monitor.
- Split rail & Series connection possible.
- Convection cooled high reliability.
- 100% burn-in test.
- 2 years warranty.
- Output modify range: 5V~60VDC.

General specifications

Input		Output	
Input range	90~264VAC 120~380VDC	Hold-up time	13ms
Input frequency	47~63Hz	Short protection	Autorecovery
Inrush current (25°C)	20A/110VAC 40A/220VAC	Over load protection	Automatic power limited
Power factor	95% Min.	1A power ready relay contacts are built in VAT module	

Detail specifications

Model	O/P Volt Adj. \pm %	Load (current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
FUS-120D-12SMT	V : +12V \pm 10%	0A	10.0A	10.0A	120mV	\pm 1%	\pm 1%	88% Ref.	17.1 ~ 18.9V
FUS-120D-24SMT	V : +24V \pm 10%	0A	5.0A	5.0A	240mV	\pm 1%	\pm 1%	89% Ref.	31.4 ~ 34.7V
FUS-120D-48SMT	V : +48V \pm 10%	0A	2.5A	2.5A	480mV	\pm 1%	\pm 1%	91% Ref.	64.6 ~ 71.4V

FUS-120D-xxSMT
120W AC/DC switching power supply

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 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 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



UL APPROVAL
(under request)

Environments

Operating Temperature	-15 ~ 60°C, Ambient
Operating Humidity	20 ~ 90% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

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[®] reserve the right to change specifications at any time without notice.

FUS-120D-xxSMT
120W AC/DC switching power supply

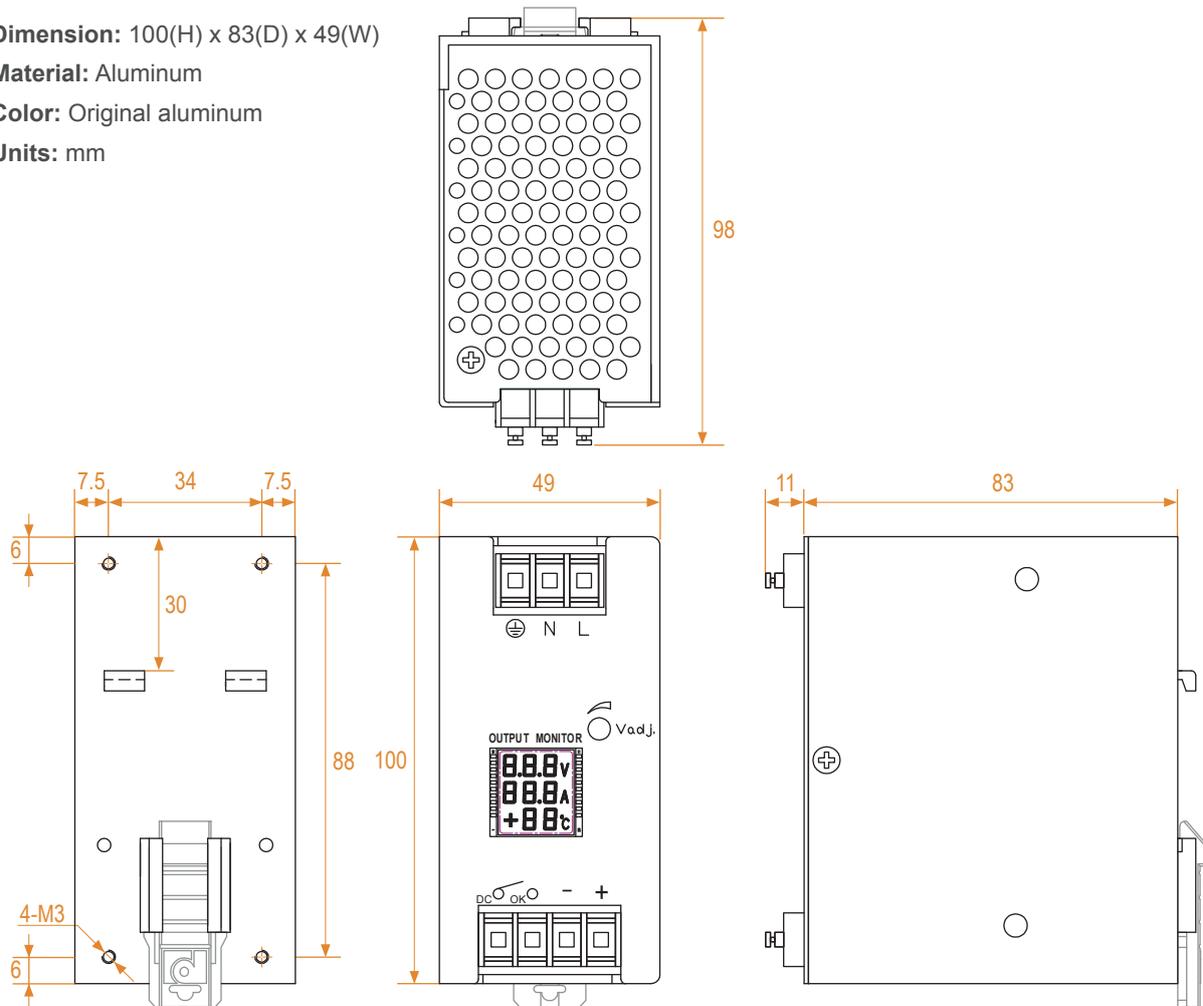
Mechanical details

Dimension: 100(H) x 83(D) x 49(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
OUTPUT MONITOR	Voltage/Current/Temperature Display
V ADJ.	Potentiometer for output Vvoltage
DC OK	Contact of power functionality relay. Short-circuit is normal; Open circuit is abnormal.