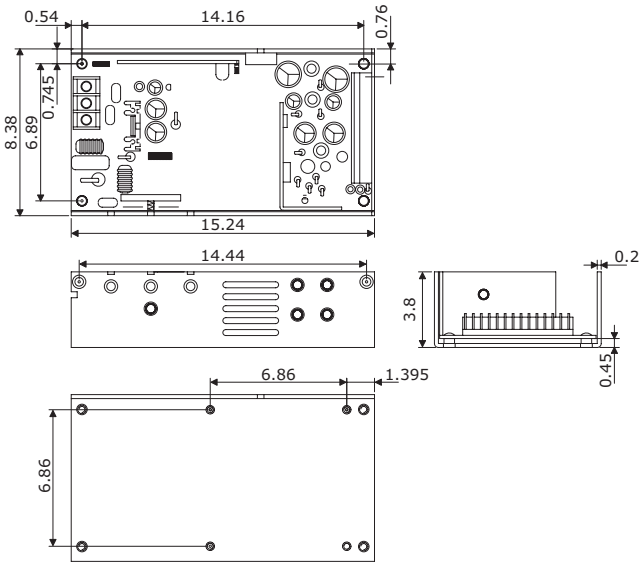
Industrial Power Supply

MPD-810H

120W 10~30VDC DC/DC ATX Open Frame Power Supply



Features

- ***Input Voltage:** The range of input voltage is from 10~30VDC, nominal input voltage is 12 and 24VDC
- ***Input Current:** The maximum is 18A at 10VDC input
- ***Inrush Current:** The inrush current is less than 30A at 10VDC input
- ***Load Range:** At the factory, the +5V output is set between 5.08V to 5.13V and all output at 60% rated load; the other outputs are checked to be within the accuracy range. The maximum total combined output power on the +3.3V and +5V rails is 70W. The max. load cannot exceed 120W
- ***Ripple And Noise:** The peak to peak ripple and noise for +5V, +3.3V output are less than 100mV for +5Vsb is 120mV, for +12V is less than 120mV, for -12V is less than 200mV at ranted load and nominal input, which is measured by a 20MHz bandwidth limited oscilloscope and the each output is connected with a 0.47uF capacitor
- ***Line Regulation:** The line regulation is less than +/-2.5% at rated load with +/-10% change in input voltage
- ***Load Regulation:** The load regulation for +5V is less than +/-2 %, for +12V is less than +/-5%, for -12V +/-5%, + 3.3V is less than +/-5% while the measuring is done by changing the measured output loading +/-40% from 60% rated load, and keep other output is at 60% rated load
- ***Power On/Off:** The power supply will start-up when the power On/Off pin be connected to secondary GND
- ***Power Good Signal:** The power is turned on, the power good signal will go high between 100ms to 500ms after all output DC voltage are within regulation limits
- ***Power Fail Signal:** The power fail signal will go low at least 1ms before any of the output voltages fall below the regulation limits
- ***Efficiency:** The efficiency is higher than 70% while measuring at nominal line and rated load
- ***Altitude:** Will operate properly at any altitude between 0 to 10000ft
- ***Protection:** The power supply will generate the hiccup mode to protect itself against short circuit or over load condition, and will return to normal after wrong condition is removed
- ***Temperature:** 0~50°C, output power is 120W forced air cooling, 80W convection cooling (operating); -20~+70°C (storage)
- ***Humidity:** 10~90% non-condensing
- ***Connectors:**
  DC Input: Dinkle DT-35-B01W-03 or equivalent
  DC Output: Molex 5273-14A or equivalent
  DC Output: Molex 5045-03A or equivalent
  Power Good Output: Molex 5045-02A or equivalent
  Fan Output: Molex 5045-02A or equivalent
- ***Dimensions:** 8.38 x 15.24 x 3.81 cm; tolerance specified is +/-0.4mm

Safety Standards

- ***Safety:** UL 1950 / CSA 22.2 No.234 / VDE EN60 950
- ***EMI:** FCC Class B / EN55022B
- ***EMS:** Level 3 of IEC-801, 802, 803, 804 / UL 1950 / CSA 22.2 No.234 / VDE EN 60 950

Connectors

CN2

PIN	Output
1~3	+5V
4~8	GND
9~10	+12V
11~13	3.3V
14	-12V

CN3

PIN	Output
1	PW On/Off
2	GND
3	5Vsb

CN4

PIN	Output
1	GND
2	PW Good

CN5 (for Fan)

PIN	Output
1	GND
2	+12V

Output Voltage	Min. Load	Rated Load	Max. Load	Voltage Accuracy
+5V	1A	8A	10A	4.95~5.15V
+12V	0A	1.5A	4A	11.25~12.75V
-12V	0A	0.5A	1A	-11.75~-13.1V
+3.3V	0A	5A	8A	3~3.5V
+5Vsb	0.1A	0.75A	----	4.8~5.2V

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