

DIN-rail Power Supply 24W

EMT 2400 Series

Features

- **Input voltages:**
85V – 265V AC and 120V–375V DC
- **Regulated Output Voltages:**
12V, 15V, 24V or +/- 12V
- **Saves space, only 25mm wide**
- **Current limiting**
- **Parallel or Serial Operation**
- **Adjustable Voltage**
- **High Efficiency**
- **Transient Protection**
- **Easy Mounting**



Description

The EMT 2400 Series are a compact line of wide Input Switch Mode Power Supplies for DIN Rail mounting, based on the latest High Frequency SMD Technology. They can be delivered with different output voltage options, to supply any electronic or electromechanical Load.

This unit is fully voltage regulated with current limit, and will withstand a short with no internal losses and no time limit. Units can be connected in parallel or in series, making it compatible with present or future applications. This feature allows reduced service and stock expenses.

The wide Input voltage range, together with transient protection, will make your Process Electronics more resistant to external noise sources, and reduce the chance of "Process Dropout".

The EMT 2400 Series are mounted in plastic housings. They are also supplied with screw terminal connectors for ease of installation/service.

When charging lead acid batteries, adjust unit to charge voltage with no load connected. This will keep your lead acid battery charged to 90-96% under normal temperature conditions in a normal standby operation.

Specifications for EMT 2400 Series

Measured at 25°C, 230VAC and Full Load.

Input

Input Voltage	85-265 VAC / 120-375 VDC	Prefusing	Max. 30 A
Power	Max. 40 VA	Inrush	< 20 A
Filter	Common Mode	Protection	275 VAC Varistor

Output

Type	EMT 2424	EMT 2415	EMT 2412	EMT 24D12
Voltage	+ 24 VDC	+ 15 VDC	+ 12 VDC	+/- 12 VDC
Current Limit	1,0 A, see curve	1,3 A, see curve	1,5 A, see curve	+/- 0,75 A
Adjustm. Range	23,5 - 27,6 VDC	14,5 - 17,0 VDC	11,8 - 13,8 VDC	+/- 11,8 - 13,8 VDC
Power	24 W MAX	20 W MAX	18 W MAX	18 W MAX
Ripple	< 0,4 %	< 0,8 %	< 1,0 %	< 1,0 %
Load Regulation	< 0,7 %	< 1,0 %	< 1,5 %	< 1,5 %
Line Regulation	< 0,1 %	< 0,1 %	< 0,1 %	< 0,1 %
Parallel Operation	95% Power sharing	90% Power sharing	85% Power sharing	85% Power sharing
Factory Adjustment	24,05 VDC +/-0,01V No Load	15,10 VDC +/-0,01V No Load	12,10 VDC +/-0,01V No Load	12,10 VDC +/-0,01V No Load

General:

Efficiency	79 - 86 %	Safety	IEC 950 - EN 60950
Frequency	100 - 250 kHz	EMC	EN 55022
Isolation	Prim/Sec 3750 V	Cooling	Convection
Creepage distance	8 mm	Parallel Operation	Active approx. 100 %
Operating temperature	0 to +55° C	Storage temperature	-40 to +85° C
Prim./Sec. Capacity	< 1,2 nF Prim/Sec	Hold-Up Time	> 20 mSec.
Weight	Approx. 150 g	Outline	85 x 79 x 25 mm

Fig. 1 IV EMT 2400 Series

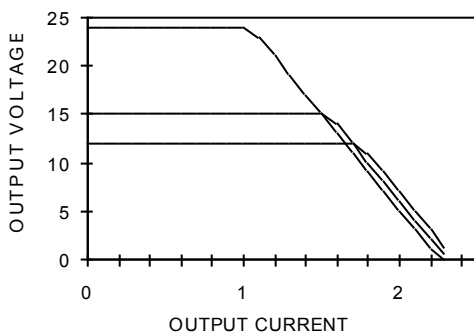
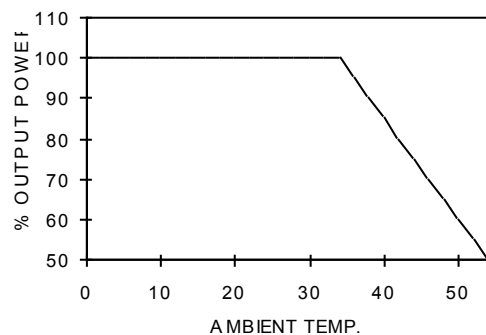


Fig. 2 DERATING EMT 2400 Series



Dimensions:

All in mm

