

## Technical Description

### EMT 7500 Series

*With Temp. Comp. Battery Charging  
and Relay Output*

#### ► Features:

- REGULATED OUTPUT
- PARALLEL OPERATION
- CURRENT LIMIT
- BATTERY CHARGING –  
Temperature Compensated.
- ALERT RELAY OUTPUT
- ADJUSTABLE
- HIGH EFFICIENCY
- WIDE INPUT RANGE
- TRANSIENT PROTECTED
- EASY MOUNTING



#### ► Description:

The EMT 7500 Series are a compact line of wide Input Switch Mode Power Supplies for DIN Rail mounting, based on the newest High Frequency SMD Technology and can be delivered with different output voltages, to supply any electronic or electromechanical Load.

This unit is fully voltage regulated with current limit, and will stand a short, with no internal losses and no time limit. Units can be connected in parallel or in series, to fit into any present or future applications. This feature gives you the possibility to reduce service- and stock expenses.

The wide Input voltage range and the Hold-up time > 20 mSec. Together with transient protection and low P/S capacitance, will make your Process Electronics more resistant to external noise sources, and reduce the chance of "Process Dropout".

Unit is supplied with an Automatic Changeover to Lead Acid Battery Charging with 2,3V/cell. and by using the BTS12, unit will adjust this charging by temperature.

The EMT 7500 Series are mounted in a solid aluminium housing with surface treatment, and supplied with screw terminal connectors for easy installation/service.

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# SPECIFICATIONS FOR EMT 7500 SERIES

@ Measured at 25 °C and Full Load.

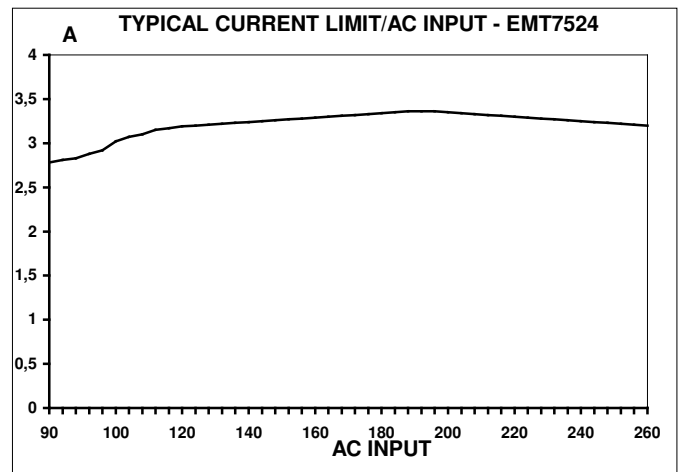
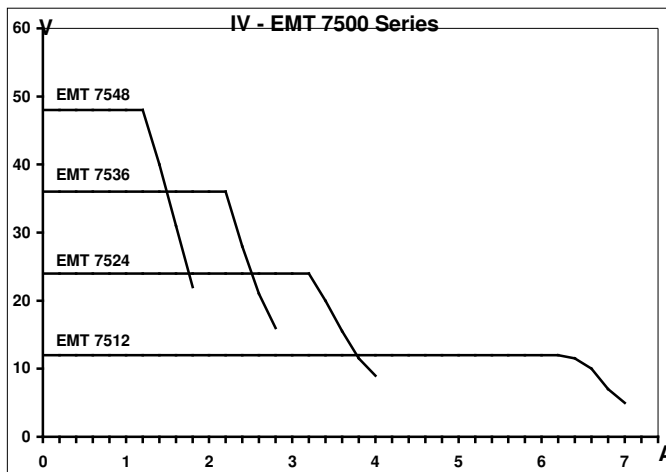
INPUT:	
<b>INPUT VOLTAGE:</b>	90-264 VAC/120 – 375 VDC
<b>FILTER:</b>	HIGH EFFICIENCY COMMON MODE FILTER
<b>POWER:</b>	MAX. 110 VA
<b>INT. FUSE:</b>	T 1,6 A – MICROFUSE
<b>PREFUSING:</b>	< 30 A
<b>INRUSH:</b>	< 25 A
<b>PROTECTION:</b>	275 VAC VARISTOR

	OUTPUT:			
	TYPE:	EMT 7512	EMT 7524	EMT 7536 *
<b>VOLTAGE OUT:</b>	+ 12 VDC	+ 24 VDC	+ 36 VDC	+ 48 VDC
<b>CURRENT LIMIT:</b>	>6,0 A	>3,2 A	>2,1 A	>1,6 A
<b>ADJUST RANGE:</b>	11,5 - 14,5 VDC	23,5 - 29,0 VDC	34,5 - 43,0 VDC	46,0 - 57,5 VDC
<b>POWER OUT:</b>	70 W MAX	75 W MAX	75 W MAX	75 W MAX
<b>RIPPLE:</b>	<0,9 %	<0,9 %	<0,9 %	<0,6 %
<b>LOAD REG.:</b>	<1,5 %	<1,2 %	<1,0 %	<0,8 %
<b>LINE REG.:</b>	<0,4 %	<0,4 %	<0,4 %	<0,4 %
<b>PARALLEL OPR.:</b>	ACTIVE (MAX 10)	ACTIVE (MAX 10)	ACTIVE (MAX 10)	ACTIVE (MAX 10)
<b>FACTORY ADJ.:</b>	12,1 VDC No Load	24,1 VDC No Load	36,05 VDC No Load	48,05 VDC No Load
<b>OVP:</b>	15,5 VDC	32,0 VDC	46,0 VDC	59,0 VDC

GENERAL:	
<b>EFFICIENCY:</b>	APPR. 88 %
<b>FREQUENCY:</b>	APPR. 120 KHZ
<b>COOLING:</b>	CONVECTION
<b>TEMP. COMP.</b>	APPR. 3,3mV/°C/CELL with BTS12 Sensor
<b>BATTERY CHARGE:</b>	2,3V/CELL
<b>RELAY CONTACTS:</b>	< 10 VA
<b>HOLD-UP TIME:</b>	> 20 mSec.
<b>ISOLATION:</b>	PRIM/SEC 3750 V
<b>P/S CAPACITY:</b>	<2,5 nF
<b>APPROVAL:</b>	CE
<b>SAFETY:</b>	IEC 950 - EN 60950
<b>EMC:</b>	EN 55022 curve B
<b>PARALLEL OPR.:</b>	ACTIVE APPR. 100 %
<b>OUTLINE:</b>	100 x 100 x 43 mm
<b>WEIGHT:</b>	APPR. 250 g
<b>OPERATING:</b>	0 to +55 °C
<b>STORAGE:</b>	-40 - +85 °C

LED INDICATOR and OUTPUT CONNECTIONS:	
<b>ON LED (GREEN)</b>	Power Supply is running.
<b>++ / --</b>	Output terminals (For 12V & 24V please use both).
<b>TEMP. COMP.:</b>	Temperature Sensor Input.
<b>CONTACT SET:</b>	Relay Output (Power Supply: Running & in Regulation = Closed) "Alert Signal" For Secondary side only

\* NOTE 1: EMT7536 on Request – units not in stock



LOCAL CONTACT :