FLUX

DIN–rail Mini-UPS 75W

EMT 75UPS Series

Features

- **Input voltages: 90V – 264V AC and 120V—375V DC**
- **Output Voltages: 12V (6A) or 24V (3A)**
- **Short term current - up to 10 A**
- **Small dimensions**
- **Expansion possibilities, up to 150 minutes in total**
- **Easy mount**
- **3 logic outputs**
- **Remote shut down**
- **Battery control:**
  - **Charge-Current limit**
  - **Temperature Feedback & shutdown**
  - **Under voltage lock-out**
  - **Battery fusing**
- **Includes wire-set and plugs**

Description

This Mini-UPS based on DIN-rail mount – includes both 75W Power Supply as well as the needed energy storage in the form of an embedded battery.

Together with our well known EMT 7500 Series, this Battery Backup System using the latest Technology will support Backup Power for many years, supported by 3 Logic output for control and alert functions.

Energy saving Unit is based on 2 pcs 12V / 1,2A hour Lead-Acid Batteries, which will deliver up to 10A. The built-in electronics will secure a correct charge of the Batteries and secure that Power is available on terminals. This Electronics will as well support your system with logic signals so that any remote reading of the Power status can be detected. By means of free relay - contact sets can be used for any logic function.

A built-in Temp. Feed-back will, when connected to the EMT 7500 series adjust the Power Supply into Lead Acid Battery Charging with 2,3V/cell, adjusted with 3mV/°C.

The EMT 75UPS Series are mounted in solid aluminium housing with dual DIN-Rail brackets, and supplied with screw terminal connectors for easy installation/service. Wire set and necessary plugs will be delivered with the Mini-UPS.

Expanded Hold-up time can be achieved through parallel connection of up to 10 Battery Units.
(Will be delivered with necessary wire-sets – for just Plug and Play).

Flux A/S Industrivangen 5, DK-4550 Asnaes, Denmark
Tel +45 5965 0089, Fax +45 5965 2021, flux@flux.dk, www.flux.dk

Specifications

Measured at 20°C

General:			
Input voltage	90-264 VAC/120 – 375 VDC	Isolation	Prim./Sec. 3750 V
Filter	Common Mode	P/S Capacitance	< 2,5 nF
Power	Max. 110 VA	Approval	CE
Efficiency	Approx. 88 %	MTBF:	> 25.000 hours
Frequency:	Approx. 120 KHZ	Relay contacts	< 10 VA at max 120V
Cooling:	Convection	Temp. Comp.	Approx. 3,3mV/° C/cell
Int. fuse	T 1,6 A – microfuse	Safety	IEC 950 - EN 60950
Prefusing	Max 16 A	EMC	EN 55022 curve B
Inrush	< 25 A	Operating temperature	-20 - 55° C
Protection	275 VAC Varistor	Storage temperature	-25 - 85° C
Battery charge	2,3 V/cell	Outline	110 x 153/160 x 100 mm
Battery life	3 – 5 Years	Weight	Approx. 2,1 kg
Under voltage lockout	1,75 V / Cell	Parallel operation	Max 10 units
Max. power out (peak):	125 W Max	Input - OK	Relay Closed / LED On
Typical power out	65 W Max	Charging	Relay Closed / LED On
Battery Off (Disable)	Optocoupler < 4 mA, Potential	Battery High (> 1,9 VDC /	Relay Closed / LED On

	EMT 75UPS12	EMT 75UPS24
Voltage out	+ 13,8 VDC	+ 27,6 VDC
Battery Mode	10,5 – 13,0VDC	21,0 – 26,0 VDC
Max. output current	< 10,0 A	< 5,0 A
Charge current	< 0,8 A	< 0,4 A
Current protection	10 AT Fuse	5 AT Fuse
Battery capacity	> 2,4 Ah	> 1,2 Ah
Under voltage lockout	10,5 VDC	21,0 VDC
Battery load when Off:	0,0002A	0,0001A
Battery charge	2,3V/Cell	2,3V/Cell
Int. temp. protection	> 85° C	> 85° C
Hold-Up > 5 Hour	< 0,4 A	< 0,2 A
Hold-Up > 1 Hour:	< 1,4 A	< 0,7 A
Hold-Up > 30 Min:	< 2,2 A	< 1,1 A
Hold-Up > 15 Min:	< 4,0 A	< 2,0 A
Hold-Up > 4 Min:	< 10 A	< 5,0 A

Note: Wire-set, fuses & plugs for connecting and start-up are included.

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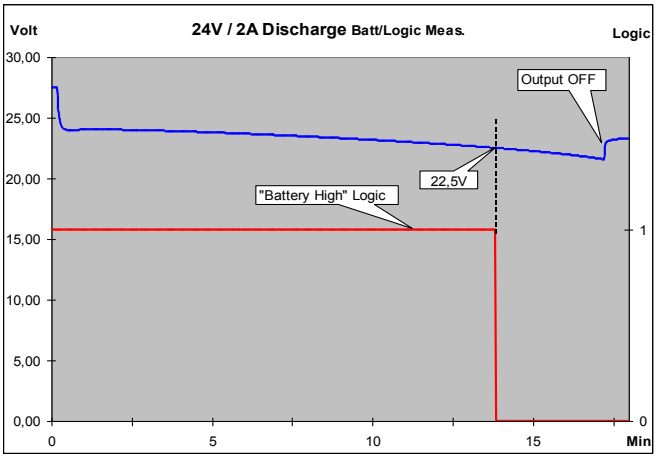
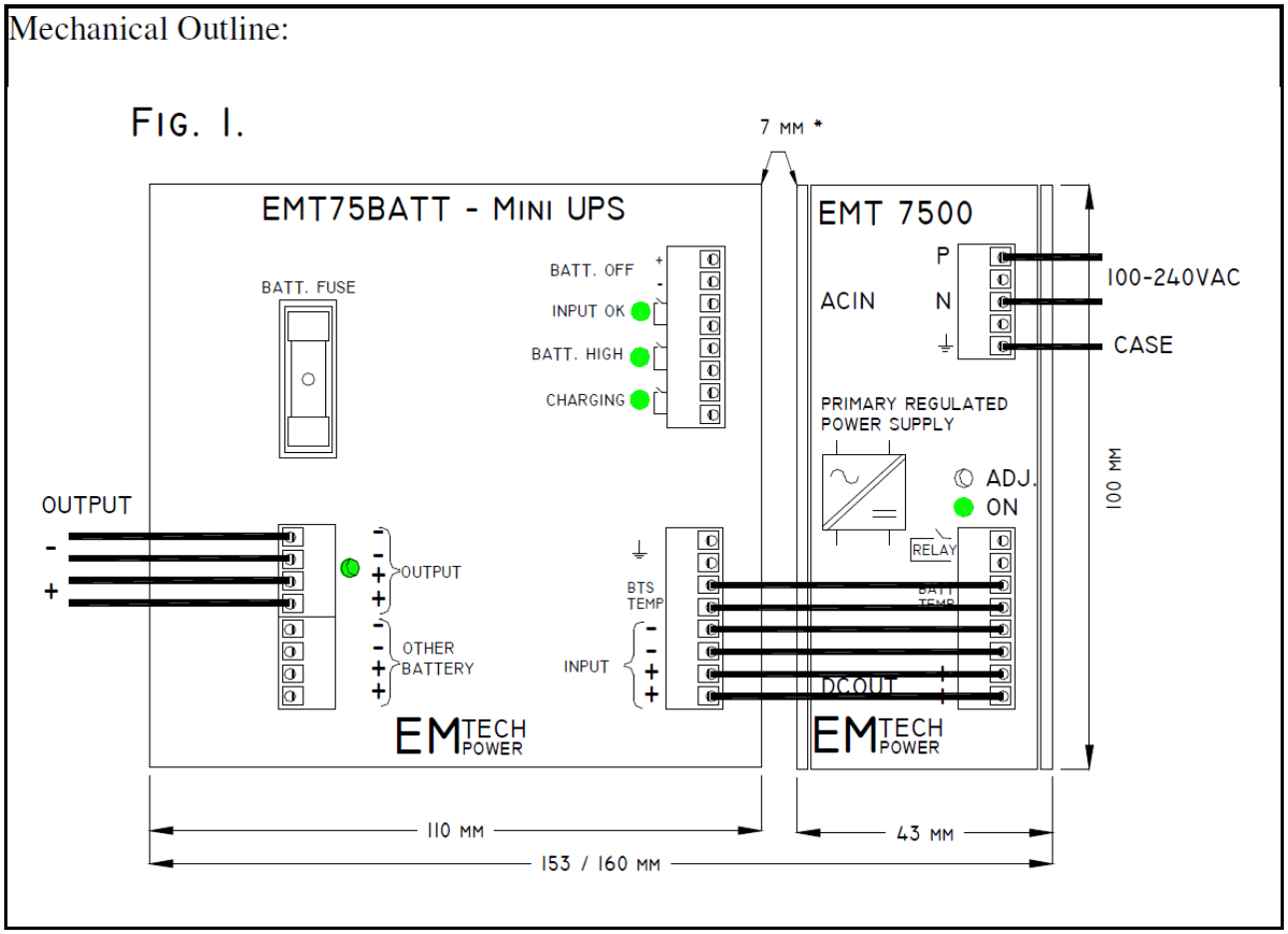
Measurements & drawings



LED Name:	LED	Contacts	Rating	Description	LED Name:	LED	Contacts	Rating	Description
INPUT OK	On	Closed	> 13,1 / 26,2 V	Unit supplied by AC	INPUT OK	Off	Open	< 12,8 / 25,6 V	Unit AC OFF - DC INPUT goes down
BATT. HIGH	On	Closed	> 11,3 / 22,6 V	Battery Voltage OK (early warning)	BATT. HIGH	Off	Open	< 11,3 / 22,6 V	When 15% energy left (early warning)
CHARGING*	On	Closed	> 0,08 / 0,05 A	Charging Battery > C20	CHARGING	Off	Open		No Charging when AC Off
OUTPUT	On		> 10,4 / 20,9 V	Output power is active for supply of load (active)	OUTPUT	Off		< 10,6 / 20,9 V	Automatic internally disconnect of Load – in order not to total discharge of Battery.

Mechanical Outline:



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