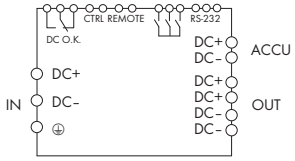
787-875

EPSITRON®- UPS Charger and Controller



- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for watchdog functions
- Remote input for switching off buffered output
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

Description	Item No.	Pack. Unit
UPS charger and controller, 24 V DC / 20 A	**787-875**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	22 V ... 29 V DC
Input current Ii	0.1 A (no-load running); 1.5 A (charging); 21.5 A (max.)
Inrush current	< 4 A (no load)
Switch-on threshold (adjustable)	20 V ... 25.5 V DC
Output:	
Nominal output voltage Vo nom	24 V DC
Output voltage range	Vi - 1 V DC (below switch-on threshold); 20 V ... 25.5 V DC (buffer mode)
Output current Io	20 A
Current limitation	typ. 22 - 26A
Buffer time	10 s ... 600 s or constant (adjustable)
Final load voltage	26 V ... 29.5 V DC or temperature controlled (adjustable)
Charging current	max. 1.0 A
Recommended battery modules	787-871, 787-872, 787-873
Operational indication	LED green (Vo), LED yellow (warning), LED red (error)
Signaling	LCD, 3 x signal output 24 V DC, 25 mA and 1 x floating relay contact 30 V DC, 1 A
Remote input	to switch off buffer operation
LineMonitor, parameter setting	via LCD and RS-232 serial interface
Efficiency / power losses:	
Efficiency	95 % typ.
Power loss P_V	15 W (stand-by) / 30 W (rated load)
Fuse protection:	
Internal fuse	25 AT

Technical Data

Environmental requirements:	
Ambient operating temperature	-10 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation))
Safety and protection:	
Test voltage	500 V DC (terminals to enclosure)
Protection class	III
Reverse voltage protection	yes
Degree of protection	IP20
Feedback voltage	max. 35 VDC
Parallel operation	yes, for buffer time extension (temperature measurement evaluation is only possible via one battery module)
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input/Output: 0.5 mm² ... 10 mm² / AWG 20 ... 8 Signalising: 0.08 mm² ... 0.5 mm² / AWG 28 ... 20
Strip lengths	Input/Output: 13 ... 15 mm / 0.55 in Signalising: 5 ... 6 mm / 0.22 in
Line length	≤ 3 m (Input, Output, Battery Control)
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 171 Height from upper-edge of DIN 35 rail
Weight	1200 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950*, UL 508*, EN 61000-6-2, EN 61000-6-3 (* pending)