



- 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 / 10 A	787-870	1

Technical Data	
Input:	
Nominal input voltage V_i nom	24 V DC
Input voltage range	22 V ... 29 V DC
Input current I_i	0.1 A (no-load running); 0.8 A (charging); 10.8 A (max.)
Inrush current	< 4 A (no load)
Switch-on threshold (adjustable)	20 V ... 25.5 V DC
Output:	
Nominal output voltage V_o nom	24 V DC
Output voltage range	$V_i - 0.5$ V DC (below switch-on threshold); 20 V ... 25.5 V DC (during buffer operation)
Output current I_o	10 A
Current limitation	typ. 11 - 14 A
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. 0.6 A
Recommended battery modules	787-871, 787-872, 787-873, 787-876
Operational indication	LED green (V_o), 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) / 20 W (rated load)
Fuse protection:	
Internal fuse	15AT

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 acc. to EN 60529
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 231 Series
Cross sections	Input/Output: 0.08 ... 2.5 mm ² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 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	40 x 163 x 163
	Height from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3