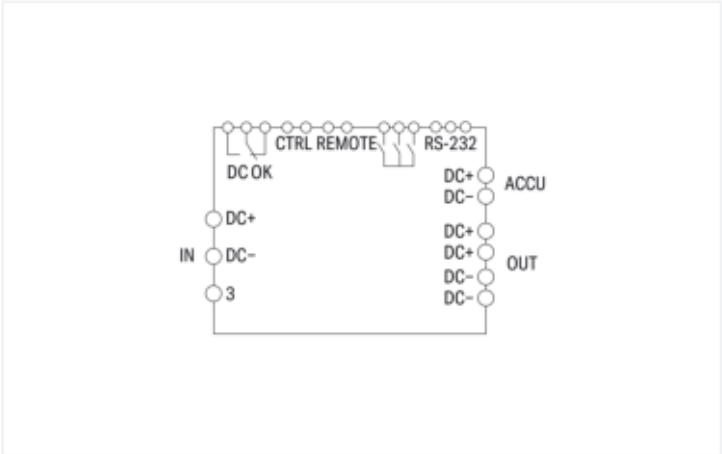


Data Sheet | Item Number: 787-875

UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; LineMonitor; communication capability

<https://www.wago.com/787-875>



Features:

- 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 function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

Technical data

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 ... 29 VDC
Nominal mains frequency range	0 Hz
Input current I_i	$\leq 0.1\text{ A}$ (no load); $\leq 1.5\text{ A}$ (charging); $\leq 21.5\text{ A}$
Inrush current	$\leq 4\text{ A}$ (no load)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	$U_i - 1\text{ VDC}$ (rated operation); 20 ... 25.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Current limitation	1.1 ... 1.3 x $I_{o\,nom}$ (typ.)

Energy storage systems	
Buffer time	10 s ... 10 min or constant; adjustable
Switch-on threshold	DC 20 ... 25.5 V (adjustable)
Memory type	Lead-acid fleece
Charging current	$\leq 1\text{ A}$
End-of-charge voltage	26 ... 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873

Signaling and Communication	
Signaling	1 x DC OK LED (green) 1 x Warning LED (yellow) 1 x Error LED (red) LCD 3 x Signal output (24 VDC; max. 25 mA) 1 x Isolated relay contact (max. 30 VDC; 1 A) 1 x RS-232 interface Battery control (C+; C-)
Operation status indicator	Green LED (U_o) Yellow LED (warning) Red LED (error)
Communications	RS-232 serial interface
Remote input	Switching buffer mode off



Efficiency/Power Losses	
Power loss P _I	≤ 15 W; ≤ 30 W (nominal load)
Efficiency (typ.)	95 %

Circuit Protection	
Internal fuse	T 25 A

Safety and protection	
Isolation voltage (connectors – housing)	0.5 kVDC
Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes
Resistance to reverse feed	≤ 35 VDC
Pollution degree	2
Parallel operation	Yes, max. 3 battery modules for buffer time extension (temperature measurement evaluation is only possible via one battery module)
Series operation	No
MTBF	> 500,000 h (per IEC 61709)

Connection Data	
Cable length (max.)	3 m (input, output, battery control)
Connection 1	
Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches

Connection 2	
Connection type	Signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 733 Series
Solid conductor	0.08 ... 0.5 mm ² / 28 ... 20 AWG
Fine-stranded conductor	0.08 ... 0.5 mm ² / 28 ... 20 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

Physical data	
Width	57 mm / 2.244 inches
Height	171 mm / 6.732 inches
Depth from upper-edge of DIN-rail	163 mm / 6.417 inches
Note (dimensions)	Height with connector

Mechanical data	
Mounting type	DIN-35 rail



Material data		
Fire load		0.443 MJ
Weight		1200 g

Environmental requirements		
Ambient temperature (operation)		-10 ... +60 °C
Ambient temperature (storage)		-25 ... +85 °C
Relative humidity		5 ... 96 % (no condensation permissible)

Standards and Specifications		
Conformity marking		CE
Standards/specifications		EN 60950 UL 60950 UL 508 EN 61000-6-2 EN 61000-6-3

Commercial data		
Product Group		6 (INTERFACE ELECTRONIC)
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4045454993917
Customs tariff number		85044060900

Product Classification		
UNSPSC		39121006
eCl@ss 10.0		27-04-06-90
eCl@ss 9.0		27-04-06-90
ETIM 9.0		EC000382
ETIM 10.0		EC000382
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817
UR Underwriters Laboratories Inc.	UL 60950-1	E255815

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 787-875			↓

Documentation

Quick-Start Guide			
Quickstart for Software 759-870	V 1.0.0	pdf 3043.43 KB	↓

Bid Text			
787-875	12.07.2019	xml 7.78 KB	↓
787-875	12.07.2019	docx 23.20 KB	↓
ausschreiben.de 787-875			↓

Instruction Leaflet			
Uninterruptible power supply	27.04.2020	pdf 1264.21 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-875	↓

CAE data	
EPLAN Data Portal 787-875	↓
WSCAD Universe 787-875	↓
ZUKEN Portal 787-875	↓

Engineering-Software

Configuration and Commissioning Software			
WAGO UPS Shutdown Tool	4.13 18.11.2021	exe 48463.53 KB	↓
WAGO Software 759-870	4.13 10.05.2021	zip 38762.69 KB	↓

Libraries

Library			
Anbindung Stromver-sorgungen Serie 787	1.3.0 14.05.2014	zip 549.48 KB	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Communication cable



Item No.: 787-890
RS-232 communication cable; Length 1.8 m

1.1.1.2 Connecting cable



Item No.: 761-9005
USB adapter; with 1m connection cable

1.1.2 Marking

1.1.2.1 Marker



Item No.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.2.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.3 Mounting adapter

1.1.3.1 DIN-rail adapter



Item No.: 787-897
Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail; gray



Item No.: 787-896
Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail; gray

1.1.3.2 Wall-mount adapter



Item No.: 787-895
Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail; gray

1.1.4 Power supply

1.1.4.1 Uninterruptible power supply



Item No.: 787-871
Lead-acid AGM battery module; 24 VDC input voltage; 20 A output current; 3.2 Ah capacity; with battery control



Item No.: 787-873
Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 12 Ah capacity; with battery control



Item No.: 787-872
Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 7 Ah capacity; with battery control

1.1.5 Tool

1.1.5.1 Operating tool



Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured