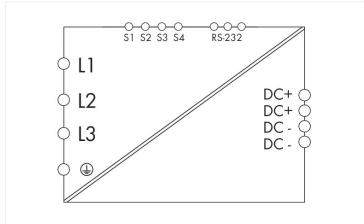
Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal; 2,50 mm²



https://www.wago.com/787-854





Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- · LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- · Four signal outputs

Communication

Technical data		
Input		
Phases	2/3	
Nominal input voltage U _{i nom}	(2 / 3) x AC 400 500 V	
Input voltage range	(2 / 3) x AC 340 550 V; DC 480 780 V	
Nominal mains frequency range	50 60 Hz; 0 Hz	
Input current I _i	≤ 3 x 2 A (340 VAC)	
Discharge current	≤ 1 mA	
Inrush current	≤ 30 A	
Power factor correction (PFC)	passive (adjustable via software/display)	
Mains failure hold-up time	≥ 15 ms (3 x 400 VAC)	

Signaling and communication				
Signaling	1 x LED DC OK (green) 1 x Warning LED (yellow) 1 x Error LED (red) LCD 4 x Signal output (24 VDC; max. 25 mA) 1 x RS-232 interface			
Operation status indicator	Green LED (DC OK) Yellow LED (warning) Red LED (error)			

RS-232 serial interface

DC 24 V (SELV)
DC 22.8 28.8 V (adjustable)
DC 24 V
40 A (24 VDC)
960 W
≤ 1 %
≤ 70 mV (peak-to-peak)
1.1 x I _{o nom} (typ.)
adjustable (constant current/fuse mode)
DC 60 A (4 s); DC 50 A (16 s)
DC 100 A (50 ms)

Efficiency/power losses			
Power loss P _I	≤ 7 W; ≤ 61.5 W (nominal load)		
Efficiency (typ.)	93.6 %		

Data Sheet | Item Number: 787-854 https://www.wago.com/787-854



Circuit protection		
Internal fuse	3 x T 3.2 A / 440 VAC	
Backup fusing (required)	An external DC fuse is required for the DC input voltage.	
Backup fusing (recommended)	3 x Circuit breaker: 6 A, 10 A, 16 A; Trip- ping characteristic: B or C Alternative: motor circuit breaker; Set- point: 3.2 A; Setting range: 2.5 4 A	

Safety and protection	
Isolation voltage (prisec.)	DC 4.242 kV
Isolation voltage (priPE)	DC 2.2 kV
Isolation voltage (secPE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 35 V
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data	
Connection type 1	Input
Connection technology	CAGE CLAMP°
WAGO connector	WAGO 231 Series
Solid conductor	0.08 2.5 mm ² / 28 12 AWG
Fine-stranded conductor	0.08 2.5 mm ² / 28 12 AWG
Strip length	8 9 mm / 0.31 0.35 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 831 Series
Solid conductor 2	0.5 10 mm² / 20 8 AWG
Fine-stranded conductor 2	0.5 10 mm² / 20 8 AWG
Strip length 2	13 15 mm / 0.51 0.59 inches
Connection type 3	Signaling
Connection technology 3	CAGE CLAMP°
WAGO connector 3	WAGO 733 Series
Solid conductor 3	0.08 0.5 mm² / 28 20 AWG
Fine-stranded conductor 3	0.08 0.5 mm² / 28 20 AWG
Strip length 3	5 6 mm / 0.2 0.24 inches

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Physical data

Width 128 mm / 5.039 inches Height 171 mm / 6.732 inches Depth from upper-edge of DIN-rail 205 mm / 8.071 inches Note (dimensions) Height with connector

Mechanical data

DIN-35 rail Mounting type

Material data

Fire load 0 MJ 2300 g Weight

Environmental requirements

-25 ... +55 °C (Device starts at -40 °C (type-tested)) Ambient temperature (operation)

Ambient temperature (storage)

Relative humidity 5 ... 96 % (no condensation permissible)

-5 %/K (> 45 °C) Derating

Standards and specifications

Conformity marking CE

EN 61010-1 Standards/specifications

EN 61010-2-201 EN 61204-3 EN 61558-2-16 UL 60950 UL 508

Commercial data

Customs tariff number

Product Group 6 (INTERFACE ELECTRONIC) eCl@ss 10.0 27-04-07-01 27-04-07-01 eCl@ss 9.0 ETIM 8.0 EC002540 ETIM 7.0 EC002540 PU (SPU) 1 pcs Packaging type Box Country of origin DE **GTIN** 4045454909895

85044083900

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

https://www.wago.com/787-854



General approvals

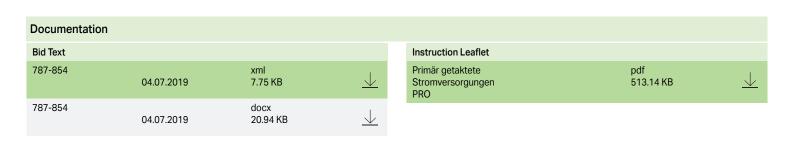


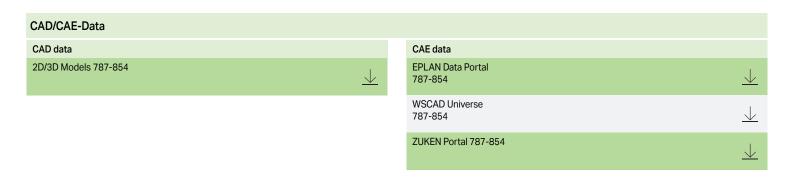
Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories	UL 60950-1	E255815

Declarations of conformity and manufacturer's declarations

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

Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 787-854





Engineering-Software

https://www.wago.com/787-854



Configuration and Commissioning Software 1.3.5

Software for Interface-Products			
WAGO Software 759-851	1.4.5 11.11.2009	zip 823.13 KB	$\underline{\downarrow}$
WAGO Software 759-850	1.10.16 24.05.2011	zip 520.23 KB	$\underline{\downarrow}$

WAGO Line Length Cal-09.12.2019 329.50 KB culation

Libraries

Library

Anbindung Stromver-1.3.0 sorgungen Serie 787 14.05.2014

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

46228, Part 4/09.90; gray

USB adapter; with 1m connection cable

1.1.2 Ferrule 1.1.2.1 Ferrule Item No.: 216-301 Item No.: 216-321 Item No.: 216-302 Item No.: 216-322 Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; yellow sulated; electro-tin plated; yellow sulated; electro-tin plated; light turquoise sulated; electro-tin plated; light turquoise Item No.: 216-241 Item No.: 216-201 Item No.: 216-221 Item No.: 216-242 Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic sulated; electro-tin plated; white sulated; electro-tin plated; white sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white 46228, Part 4/09.90; gray Item No.: 216-262 Item No.: 216-202 Item No.: 216-222 Item No.: 216-243 Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 1 mm² / AWG 18; insusulated; electro-tin plated; electrolytic sulated; electro-tin plated; gray sulated; electro-tin plated; gray lated; electro-tin plated; electrolytic copcopper; gastight crimped; acc. to DIN per; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

https://www.wago.com/787-854



1.1.2.1 Ferrule

Item No.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90: black

Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-205

Ferrule; Sleeve for 2.08 mm² / AWG 14; insulated; electro-tin plated; yellow

Item No.: 216-206

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue

Item No.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-267

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-28

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-207

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray

Item No.: 216-208

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

Item No.: 216-288

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

1.1.3 Marking

1.1.3.1 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; snapon type; white

1.1.3.2 Marking strip

Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

Item No.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

Item No.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive: white

1.1.4 Mounting adapter

https://www.wago.com/787-854



1.1.4.1 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

Item No.: 787-896

Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail

1.1.4.2 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

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.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Subject to changes. Please also observe the further product documentation!

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