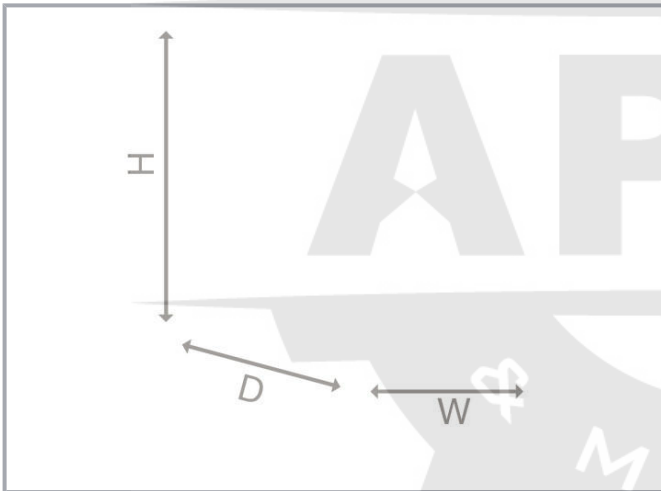
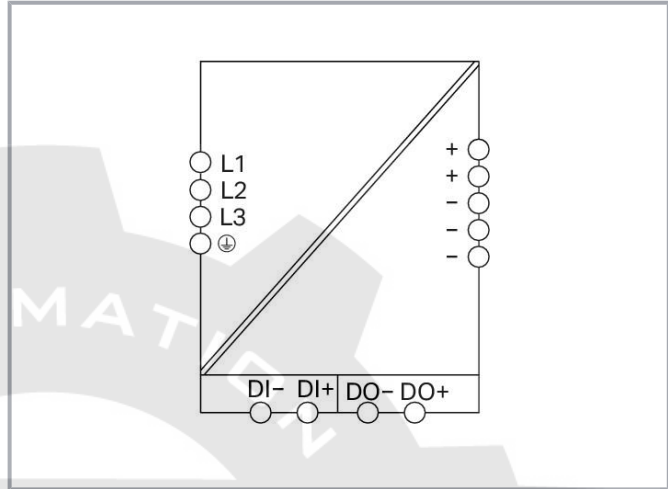


Data sheet | Item number: 2787-2347

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current;
TopBoost + PowerBoost; communication capability

www.wago.com/2787-2347



Item description

Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted

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

WAGO Corporation
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- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO Marker Cards (WMB) and WAGO Marking Strips

Data

Technical data

Input

Phases	2 3
Nominal input voltage [V]	AC 400 ... 500 V
Input voltage range	(2 / 3) x AC 340 ... 550 V; DC 480 ... 780 V
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3 \times 0.8 \text{ A}$ (400 VAC; 20 ADC)
Inrush current	$\leq 15 \text{ A}$ (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 20 \text{ ms}$ (3 x 400 VAC)

Output

Nominal output voltage [V]	DC 24 V (SELV)
Output voltage range	DC 24 V
Default setting	DC 24 V
Nominal output current $I_{o \text{ nom}}$	20 A (24 VDC)
Nominal output power	480 W
Control deviation	$\leq 1 \%$
Residual ripple	$\leq 70 \text{ mV}$ (Peak-to-peak)
Current limitation	$1.1 \times I_{o \text{ nom}}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 30 A (5 s)
TopBoost	up to 600 %

Signaling and communication

Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
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Communication

IO-Link (with 2789-9080 module)
 Modbus RTU (with 2789-9015 module)
 Modbus TCP (with 2789-9052 module)
 RS232 (with 750-923 cable)

Efficiency/power losses

Power loss P_l	≤ 3.6 W (Standby); ≤ 4.4 W (No load); ≤ 21 W (400 VAC; Nominal load)
Efficiency (typ.)	95.9 % (400 VAC; 20 A; 25 °C)

Circuit protection

Internal fuse	3 x T 2.5 A / 500 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A)

Safety and protection

Isolation voltage (pri.-sec., AC)	3,510 V
Isolation voltage (pri.-GND, AC)	2,200 V
Isolation voltage (Sec.-GND)	DC 0.5 kV
Isolation voltage (Sec.-Signal)	DC 0.5 kV
Protection class	I
Protection type	IP20 (per EN 60529)
Resistance to reverse feed	$\leq$ DC 35 V
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 800,000$ h (per IEC 61709)

Connection data

Connection type (1)	Input/signaling
Connection technology	CAGE CLAMP®
WAGO Connector	WAGO 721 Series

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Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2	WAGO 831 Series
Solid conductor 2	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor 2	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule 2	0.5 ... 6 mm ² /
Fine-stranded conductor; with uninsulated ferrule 2	0.5 ... 6 mm ² /
Strip length 2	13 ... 15 mm / 0.51 ... 0.59 inch

Physical data

Width	70 mm / 2.756 inch
Height	130 mm / 5.118 inch
Depth from upper edge of DIN-rail	130 mm / 5.118 inch
Note (dimensions)	Height without connector Height with connector: 169 mm

Mechanical data

Mounting type	DIN-35 rail
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Material data

Weight	1400 g
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Environmental requirements

Surrounding air temperature (operation)	-25 ... 70 °C (Device starts at -40 °C (type-tested))
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

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Standards and specifications

Conformity marking	CE
Standards/Specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201

Commercial data

Packaging type	BOX
Country of origin	CN
GTIN	4055143907163
Customs tariff number	8504409510

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

Optional accessories

Tools

	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-720
	Item no.: 210-721 Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-721

Ferrules

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	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
	Item no.: 216-205 Ferrule; Sleeve for 2.08 mm² / AWG 14; insulated; electro-tin plated; yellow	www.wago.com/216-205
	Item no.: 216-206 Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue	www.wago.com/216-206
	Item no.: 216-207 Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray	www.wago.com/216-207
	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	www.wago.com/216-208
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
	Item no.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
	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	www.wago.com/216-244
	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	www.wago.com/216-246
	Item no.: 216-262	

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

	Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-262
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-263
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-264
	Item no.: 216-266 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-266
	Item no.: 216-267 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-267
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-284
	Item no.: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-286
	Item no.: 216-287 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-287
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-302
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-322
Cables and pluggable connectors		
	Item no.: 750-923 Configuration cable; USB connector; Length: 2.5 m	www.wago.com/750-923
	Item no.: 750-923/000-001 Configuration cable; USB connector; Length: 5 m	www.wago.com/750-923/000-001
General accessories		
	Item no.: 2789-9015 Communication module; Modbus RTU; RJ45; communication capability	www.wago.com/2789-9015
	Item no.: 2789-9080 Communication module; IO-Link; communication capability	www.wago.com/2789-9080

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



Marking accessories

Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-115

Downloads

Documentation

Manual

Power Supply; Pro 2; 3-phase; DC 24 V; 20 A TopBoost + PowerBoost; Communication	V 1.0.0 Apr 30, 2021	pdf 5.9 MB	Download
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Bid Text

2787-2347_EUSA X81 - Datei	Jul 4, 2019	xml 8.1 kB	Download
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2787-2347_EUSA docx - Datei	Jul 4, 2019	docx 23.6 kB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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Engineering-Software

Software for Interface-Products

WAGO Interface Configuration Software G2 SMALL The full setup only includes the WAGO Interface Configuration Software G2.	1.0.6.18 Apr 8, 2021	exe 30.0 MB	Download
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WAGO Interface Configuration Software G2 FULL The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.	1.0.6.18 Apr 8, 2021	exe 113.9 MB	Download
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WAGO IO-Link Configurator

WAGO IO-Link Configurator	V5.1.1 Dec 17, 2020	ZIP 25.2 MB	Download
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The WAGO IO-Link Configurator is standalone commissioning, configuration and management software for the WAGO Field I/O System's IO-Link Master and Hubs.

It supports all IO-Link devices per the IO-Link specification and allows automatic download of IODDs via integrated IODD Finder.

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CAD files

CAD data

2D/3D Models 2787-2347	URL	Download
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CAE data

EPLAN Data Portal 2787-2347	URL	Download
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ZUKEN Portal 2787-2347	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2787-2347	URL	Download
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Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost
+ PowerBoost; communication capability

Installation Notes

Product family

Pro 2
[Show all products from the family](#)

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