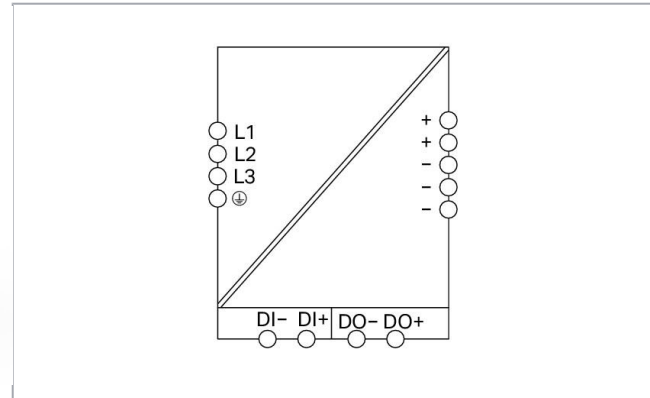


Data sheet | Item number: 2787-2347 **NEW**

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

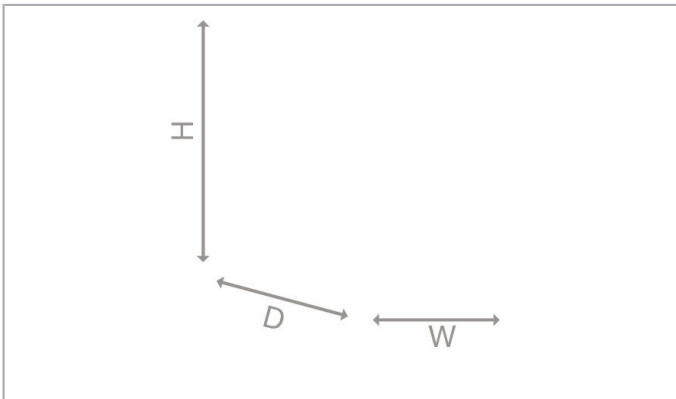


www.wago.com/2787-2347



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)



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

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at 01788 568 008.



- 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 $U_{i\text{ nom}}$ | (2 / 3) x 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 $U_{o\text{ nom}}$ | DC 24 V (SELV) |
| Output voltage range | DC 24 ... 28 V (adjustable) |
| 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) |

Signaling and communication

| | |
|---------------|--------------------------------------------------------------------------------------------------------------|
| Signaling | Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO) |
| Communication | Communication interface, can be used with WAGO USB |

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



Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)

Efficiency/power losses

| | |
|-------------------|--------------------------------------------------------------------------------------|
| Power loss P_l | ≤ 3.6 W (Stand-by); ≤ 4.4 W (No load); ≤ 21 W (400 VAC; Nominal load) |
| Efficiency (typ.) | 95.9 % (400 VAC; 20 ADC; 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

| | |
|------------------------------------|------------------------------------------------------------------------|
| Isolationsspannung (Pri.-Sek., AC) | 3,510 V |
| Isolationsspannung (Pri.-PE, 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.) |
| 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 |
| Solid conductor | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at 01788 568 008.



| | |
|-----------------------------------------------------|----------------------------------------------|
| 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 (EN 60715) |
|---------------|------------------------|

Material Data

| | |
|--------|--------|
| Weight | 1400 g |
|--------|--------|

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 |
| Pollution degree | 2 |
| Climatic category | 3K3 (per EN 60721) |
| Operating altitude (max.) | 5000 m |

Standards and specifications

| | |
|--------------------|----|
| Conformity marking | CE |
|--------------------|----|

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

WAGO Kontakttechnik GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at 01788 568 008.

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 | 85044082900 |

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 |

Counterpart

Compatible products

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 |

ferrule

















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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com










Do you have any questions about our products?
We are always happy to take your call at 01788 568 008.

| | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-201 |
|  | Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-202 |
|  | Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red | www.wago.com/216-203 |
|  | Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black | www.wago.com/216-204 |
|  | Item no.: 216-205 Ferrule; Sleeve for 2.08 mm ² / AWG 14; insulated; electro-tin plated; yellow | www.wago.com/216-205 |
|  | Item no.: 216-206 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; blue | www.wago.com/216-206 |
|  | Item no.: 216-207 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; gray | www.wago.com/216-207 |
|  | Item no.: 216-208 Ferrule; Sleeve for 6 mm ² / 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 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-221 |
|  | Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-222 |
|  | Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red | www.wago.com/216-223 |
|  | Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black | www.wago.com/216-224 |
|  | Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 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 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | www.wago.com/216-242 |
|  | Item no.: 216-243 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/216-243 |
|  | Item no.: 216-244 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/216-244 |
|  | Item no.: 216-246 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/216-246 |
| | 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 |
| 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 |
|  | Item no.: 750-923 Configuration cable; USB connector; Length: 2.5 m; black | 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 |
| Marking accessories | | |

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

| | | |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | 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 |
|  | Item no.: 2009-115/000-002 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | www.wago.com/2009-115/000-002 |
|  | Item no.: 2009-115/000-006 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue | www.wago.com/2009-115/000-006 |
|  | Item no.: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray | www.wago.com/2009-115/000-007 |
|  | Item no.: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | www.wago.com/2009-115/000-012 |
|  | Item no.: 2009-115/000-017 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green | www.wago.com/2009-115/000-017 |
|  | Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green | www.wago.com/2009-115/000-023 |
|  | Item no.: 2009-115/000-024 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | www.wago.com/2009-115/000-024 |

Downloads

Documentation

Bid Text

| | | | |
|-------------------------------------|-------------|-----------------|----------|
| 2787-2347_EUSA GAEB X81 - Datei | 04-Jul-2019 | xml 8.1 kB | Download |
| 2787-2347_EUSA GAEB docx - Datei | 04-Jul-2019 | docx 23.6 kB | Download |

Instruction Leaflet

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|----------|
| WAGO Stromversorgung Pro 2 3-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 20 A; TopBoost + PowerBoost; kommunikationsfähig | V 1.0.0 02-Jun-2020 | pdf 4.4 MB | Download |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|----------|

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at 01788 568 008.



Additional Information

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

Engineering-Software

Software for Interface-Products

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| WAGO Interface Configuration Software G2 FULL | 1.0.2.12 | exe | Download |
| The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework. | 14-Sep-2020 | 113.1 MB | |

| | | | |
|----------------------------------------------------------------------------|-------------|---------|----------|
| WAGO Interface Configuration Software G2 SMALL | 1.0.2.12 | exe | Download |
| The full setup only includes the WAGO Interface Configuration Software G2. | 14-Sep-2020 | 29.1 MB | |

CAD/CAE-Data

CAD data

| | | |
|------------------------|-----|----------|
| 2D/3D Models 2787-2347 | URL | Download |
|------------------------|-----|----------|

CAE data

| | | |
|------------------------|-----|----------|
| ZUKEN Portal 2787-2347 | URL | Download |
|------------------------|-----|----------|

Installation Notes

Product family

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

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at 01788 568 008.