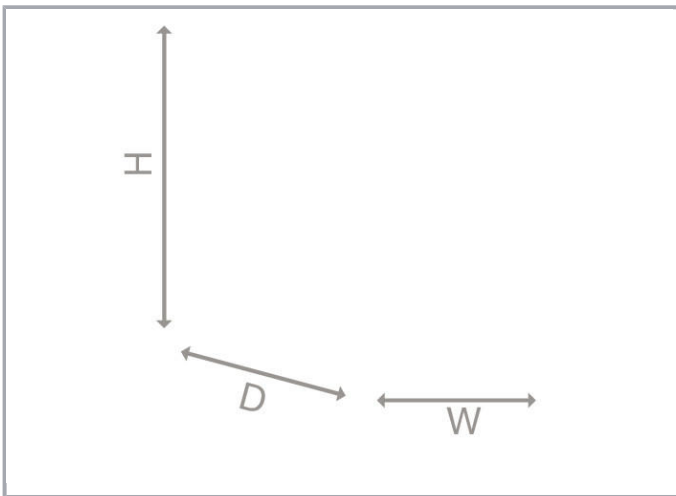
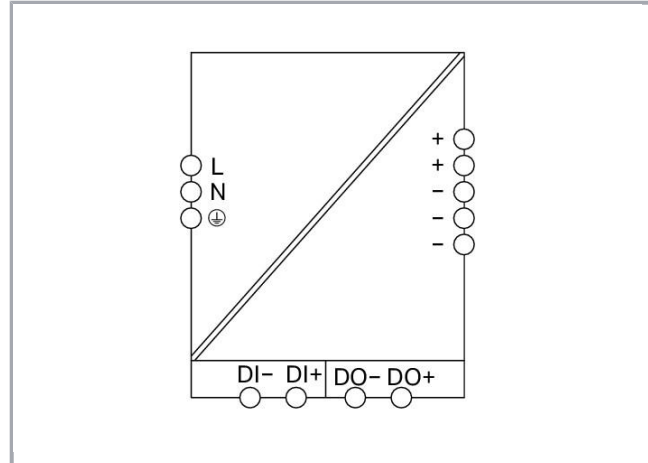


Data sheet | Item number: 2787-2146

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current;
TopBoost + PowerBoost; communication capability



www.wago.com/2787-2146



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

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

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- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- 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 | 1 |
| Nominal input voltage $U_{i\text{nom}}$ | AC 100 ... 240 V |
| Input voltage range | AC 90 ... 264 V; DC 130 ... 373 V |
| Nominal mains frequency range | 47 ... 63 Hz; 0 Hz |
| Input current I_i | $\leq 1,2$ A (240 VAC; Nominal load); $\leq 2,7$ A (100 VAC; Nominal load) |
| Inrush current | ≤ 11 A (after 1 ms) |
| Power factor correction (PFC) | Active |
| Mains failure hold-up time | ≥ 25 ms (230 VAC) |

Output

| | |
|--|--|
| Nominal output voltage $U_{o\text{nom}}$ | DC 24 V (SELV) |
| Output voltage range | DC 24 ... 28 V (adjustable) |
| Factory preset | DC 24 V |
| Nominal output current $I_{o\text{nom}}$ | 10 A (24 VDC) |
| Nominal output power | 240 W |
| Adjustment accuracy | ≤ 1 % |
| Residual ripple | ≤ 70 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 15 A (5 s) |

Signaling and communication

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

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



Communication

Communication interface, can be used with WAGO USB Communication Cable (750-923) or WAGO IO-Link Communication Module (2789-9080)

Efficiency/Power losses:

| | |
|-------------------|--|
| Power loss P_l | ≤ 1 W (Stand-by); $\leq 2,2$ W (No load); ≤ 12 W (230 VAC; Nominal load) |
| Efficiency (typ.) | 95,3 % (230 VAC; 10 ADC; 25 °C) |

Fuse protection:

| | |
|-----------------------------|---|
| Internal fuse | T 6.3 A / 250 VAC |
| External fuse (required) | An external DC fuse is required for the DC input voltage. |
| External fuse (recommended) | 16 A (for USA/Canada: 15 A) |

Safety and protection:

| | |
|-----------------------------------|--|
| Insulation voltage (SEC-GND) | DC 0,5 kV |
| Insulation voltage (SEC-Signal) | DC 0,5 kV |
| Protection class | I |
| Protection class | IP20 (per EN 60529) |
| Feedback voltage | \leq DC 35 V |
| Overvoltage category | III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.) |
| Transient protection, primary | Yes |
| Overvoltage protection, secondary | Internal protective circuit ≤ 35 VDC (in the event of a fault) |
| Short circuit protection | Yes |
| No-load proof | Yes |
| Parallel operation | Yes |
| Series connection | Yes |
| MTBF | $> 1,200,000$ h (per IEC 61709) |

Connection data

| | |
|--|--|
| Connection type (1) | Input/Output/Signaling |
| Connection technology | CAGE CLAMP® |
| WAGO terminal | 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 |
| Fine-stranded conductor with ferrule with plastic collar | 0,25 ... 1,5 mm ² / 20 ... 16 AWG |

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| | |
|---|--|
| Fine-stranded conductor with ferrule without plastic collar | 0,25 ... 2,5 mm ² / 20 ... 14 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inch |

Geometrical Data

| | |
|---------------------------------------|---|
| Width | 50 mm / 1.969 inch |
| Height | 130 mm / 5.118 inch |
| Length from upper-edge of DIN-35 rail | 130 mm / 5.118 inch |
| Note on dimensions | Height without connector Height with connector: 166 mm |

Mechanical data

| | |
|------------------|------------------------|
| Type of mounting | DIN-35 rail (EN 60715) |
|------------------|------------------------|

Material Data

| | |
|--------|--------|
| Weight | 1000 g |
|--------|--------|

Environmental Requirements

| | |
|---|---|
| Surrounding air (operating) temperature | -25 ... 70 °C (Device starts at -40 °C (type-tested)) |
| Surrounding air (storage) temperature | -40 ... 85 °C |
| Relative humidity | 5 ... 96 % (no condensation permissible) |
| Derating | -3 %/K (> +55 °C and $U_i < 230$ VAC); -3 %/K (> +60 °C and $U_i \geq 230$ VAC) |
| Pollution degree | 2 |
| Climatic category | 3K3 (per EN 60721) |
| Max. operating altitude | 5000 m |

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 | 4055143907330 |
| Customs Tariff No. | 85044082900 |


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Approvals / Certificates




UL-Approvals

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

Counterpart

Compatible products

General accessories

| | | |
|--|---|--|
|  | 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 |
|  | 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 |















ferrule

| | | |
|---|---|--|
|  | 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.: 216-221 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 |

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| | | |
|--|--|--|
|  | 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.: 216-262 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.: 216-284 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.: 216-301 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 |
|  | Item no.: 750-923/000-001 Configuration cable; USB connector; Length: 5 m | www.wago.com/750-923/000-001 |
| tools | | |
|  | Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft | www.wago.com/210-720 |







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

www.wago.com/210-721

Marking accessories

| | | |
|--|---|--|
|  | Item no.: 2009-110 Marking strips; 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 |

Downloads

Documentation

Instruction Leaflet

| | | | |
|---|-------------------------|---------------|----------|
| WAGO Pro 2 Power Supplies 1-phasing; 24 VDC / 10 A | V 1.0.0 Oct 16, 2019 | pdf 4.4 MB | Download |
|---|-------------------------|---------------|----------|

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 FULL | 1.0.1.29 | exe | Download |
| The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework. | Aug 26, 2019 | 97.4 MB | |

| | | | |
|--|--------------|---------|----------|
| WAGO Interface Configuration Software G2 SMALL | 1.0.1.29 | exe | Download |
| The full setup only includes the WAGO Interface Configuration Software G2. | Aug 26, 2019 | 13.4 MB | |

Device Files

Device Description File

| | | | |
|------------------------------------|--------------|----------|----------|
| Device description files 2787-2146 | 1.1 | zip | Download |
| | Sep 17, 2019 | 107.5 kB | |

Installation Notes

Product family

Pro 2

[Show all products from the family](#)

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