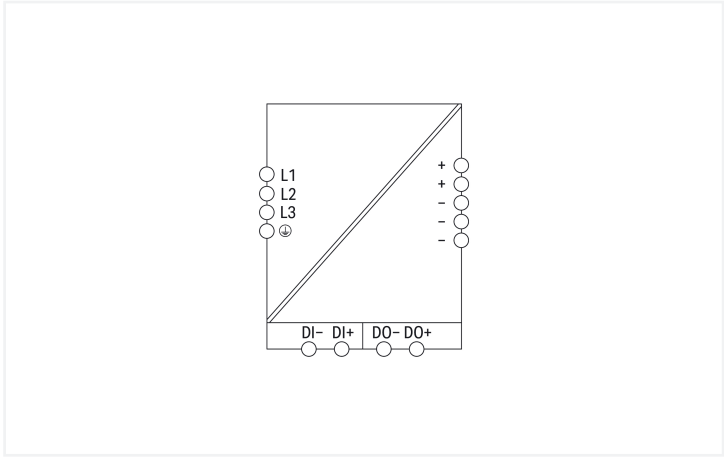




Similar to illustration



**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, EtherNet/IP™, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

| Technical data                      |                                                            |                               |                       |
|-------------------------------------|------------------------------------------------------------|-------------------------------|-----------------------|
| Input                               |                                                            | Input                         |                       |
| Phases                              | 3                                                          | Inrush current                | after 1 ms            |
| Nominal input voltage $U_{in\,nom}$ | 3 x 400 ... 500 VAC (connection without neutral conductor) | Power factor correction (PFC) | Active                |
| Input voltage range                 | 3 x 340 ... 550 VAC                                        | Mains failure hold-up time    | ≥ 20 ms (3 x 400 VAC) |
| Nominal mains frequency range       | 50 ... 60 Hz                                               |                               |                       |
| Input current $I_i$                 | ≤ 3 x 0.8 A (400 VAC; 24 VDC / 20 A)                       |                               |                       |



| Output                              |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| Nominal output voltage $U_{o\,nom}$ | 24 VDC (SELV)                                                                                |
| Output voltage range                | 24 ... 28 VDC (adjustable)                                                                   |
| Default Setting                     | 24 VDC                                                                                       |
| Nominal output current $I_{o\,nom}$ | 20 A (24 VDC)                                                                                |
| Nominal output power                | 480 W                                                                                        |
| Deviation                           | ≤ 1 %                                                                                        |
| Residual ripple                     | ≤ 70 mV (peak-to-peak)                                                                       |
| Current limitation                  | 1.1 x $I_{o\,nom}$ (typ.)                                                                    |
| Overload behavior                   | TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set) |
| PowerBoost                          | 30 ADC (5 s)                                                                                 |
| TopBoost                            | Up to 600 %                                                                                  |

| Efficiency/Power Losses |                                                                      |
|-------------------------|----------------------------------------------------------------------|
| Power loss $P_I$        | ≤ 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)                                        |

| Safety and protection             |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Isolation voltage (pri.-sec., AC) | 3510 V                                                            |
| Isolation voltage (pri.-PE, AC)   | 2200 V                                                            |
| Isolation voltage (sec.-PE)       | 0.5 kVDC                                                          |
| Isolation voltage (sec.-signal)   | 0.5 kVDC                                                          |
| Protection class                  | I                                                                 |
| Protection type                   | IP20; per EN 60529                                                |
| Resistance to reverse feed        | ≤ 35 VDC                                                          |
| 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<br>≤ 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 1                                      |                                   | Connection 2                                      |                                     |
| Connection type                                   | Input/signaling                   | Connection type                                   | Output                              |
| Connection technology                             | CAGE CLAMP®                       | Connection technology                             | Push-in CAGE CLAMP®                 |
| WAGO connector                                    | WAGO 721 Series                   | WAGO connector                                    | WAGO 831 Series                     |
| Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 12 AWG  | Solid conductor                                   | 0.5 ... 10 mm² / 20 ... 8 AWG       |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG  | Fine-stranded conductor                           | 0.5 ... 10 mm² / 20 ... 8 AWG       |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm² / 20 ... 16 AWG  | Fine-stranded conductor; with insulated ferrule   | 0.5 ... 6 mm²                       |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm² / 20 ... 14 AWG  | Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 6 mm²                       |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches | Strip length                                      | 13 ... 15 mm / 0.51 ... 0.59 inches |

| Signaling and Communication |                                                                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signaling                   | Optical status indication (DC OK; load; warning and error states)<br>Digital signal input and output (DI/DO)                                                                                                                 |
| Communications              | USB (750-923 Communication Cable)<br>Ethernet/IP™ (2789-9023 Communication Module)<br>IO-Link (2789-9080 Communication Module)<br>Modbus RTU (Communication Module 2789-9015)<br>Modbus TCP (2789-9052 Communication Module) |

| Circuit Protection        |                                                           |
|---------------------------|-----------------------------------------------------------|
| Internal fuse             | 3 x T 2.5 A / 500 VAC                                     |
| Pre-fuse (required)       | An external DC fuse is required for the DC input voltage. |
| Backup fuse (recommended) | 3 x 16 A (for USA/Canada: 3 x 15 A)                       |



| Physical data                     |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| Width                             | 70 mm / 2.756 inches                                      |
| Height                            | 130 mm / 5.118 inches                                     |
| Depth from upper-edge of DIN-rail | 130 mm / 5.118 inches                                     |
| Note (dimensions)                 | Height without connector<br>Height with connector: 169 mm |

| Mechanical data |             |
|-----------------|-------------|
| Mounting type   | DIN-35 rail |

| Material data |        |
|---------------|--------|
| Fire load     | 0 MJ   |
| Weight        | 1400 g |

| Environmental requirements      |                                                        |
|---------------------------------|--------------------------------------------------------|
| Ambient temperature (operation) | -25 ... +70 °C (Device starts at -40 °C (type-tested)) |
| Ambient 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                                                 |

| Standards and Specifications |                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| Conformity marking           | CE                                                                                                           |
| Standards/specifications     | EN 61010-1<br>EN 61010-2-201<br>EN 61204-3<br>UL 61010-1<br>UL 61010-2-201<br>SEMI F47<br>UL 121201 (HazLoc) |

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4055143907163 |
| Customs tariff number | 85044083900   |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121004             |
| ETIM 9.0               | EC002540             |
| ETIM 10.0              | EC002540             |
| 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 | Approval                                                   | Standard | Certificate Name |
| EAC<br>GZO Almaty Standart                                                                                                                                         | TP TC 004/2011 | EAC CoC 03080    | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| EAC<br>GZO Almaty Standart                                                                                                                                         | TP TC 020/2011 | EAC CoC 03081    | MFD for SEMI F47<br>WAGO GmbH & Co. KG                     | -        | -                |
| UL<br>Underwriters Laboratories<br>Inc.                                                                                                                            | UL 61010-2-201 | E255817          |                                                            |          |                  |

Approvals for hazardous areas

|  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Approval                                                                         | Standard  | Certificate Name |
| UL<br>Underwriters Laboratories<br>Inc. (HAZARDOUS LOCA-<br>TIONS)               | UL 121201 | E198726          |

Downloads

| Environmental Product Compliance              |                                                                                     |
|-----------------------------------------------|-------------------------------------------------------------------------------------|
| Compliance Search                             |                                                                                     |
| Environmental Product<br>Compliance 2787-2347 |  |

Documentation

| Manual                                                           |                       |                   |                                                                                     | Bid Text       |            |                  |                                                                                       |
|------------------------------------------------------------------|-----------------------|-------------------|-------------------------------------------------------------------------------------|----------------|------------|------------------|---------------------------------------------------------------------------------------|
| Product Manual Power<br>Supply; Pro 2; 3-phase;<br>DC 24 V; 20 A | V 1.1.0<br>15.02.2022 | pdf<br>8406.49 KB |  | 2787-2347_EUSA | 04.07.2019 | docx<br>23.09 KB |  |
|                                                                  |                       |                   |                                                                                     | 2787-2347_EUSA | 04.07.2019 | xml<br>7.92 KB   |  |



| Instruction Leaflet        |                       |                   |  |
|----------------------------|-----------------------|-------------------|--|
| WAGO Stromversorgung Pro 2 | V 1.1.0<br>26.04.2021 | pdf<br>4607.34 KB |  |

| CAD/CAE-Data              |                                |
|---------------------------|--------------------------------|
| <b>CAD data</b>           | <b>CAE data</b>                |
| 2D/3D Models<br>2787-2347 | EPLAN Data Portal<br>2787-2347 |
|                           | ZUKEN Portal<br>2787-2347      |

| Runtime Software                  |                         |                  |  |
|-----------------------------------|-------------------------|------------------|--|
| <b>Firmware</b>                   |                         |                  |  |
| 2787-2347, Stromversorgung; Pro 2 | V 0104000<br>15.10.2021 | zip<br>977.70 KB |  |

| 1 Compatible Products      |
|----------------------------|
| 1.1 Product Expansions     |
| 1.1.1 Communication Module |

|                                                                                                                  |                                                                                                |                                                                                                         |                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                  |                                                                                                |                                                                                                         |                                                                                                   |
| <a href="#">Item No.: 2789-9023</a><br>Communication module; EtherNet/IP; MQTT Pub/Sub; communication capability | <a href="#">Item No.: 2789-9080</a><br>Communication module; IO-Link; communication capability | <a href="#">Item No.: 2789-9015</a><br>Communication module; Modbus RTU; RJ45; communication capability | <a href="#">Item No.: 2789-9052</a><br>Communication module; Modbus TCP; communication capability |

| 1.2 Optional Accessories    |
|-----------------------------|
| 1.2.1 Cables and connectors |
| 1.2.1.1 Communication cable |

|                                                                                              |
|----------------------------------------------------------------------------------------------|
|                                                                                              |
| <a href="#">Item No.: 750-923/000-001</a><br>Configuration cable; USB connector; Length: 5 m |

| 1.2.3 Marking                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1.2.3.1 Marker                                                                                                                               |
|                                                                                                                                              |
| <a href="#">Item No.: 2009-115</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white |



1.2.3.2 Marker carrier



**Item No.: 2789-1233**  
Marker carrier; for WMB or marking strips;  
Length: 33 mm

1.2.3.3 Marking strip



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

1.2.4 Tool

1.2.4.1 Operating tool



**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