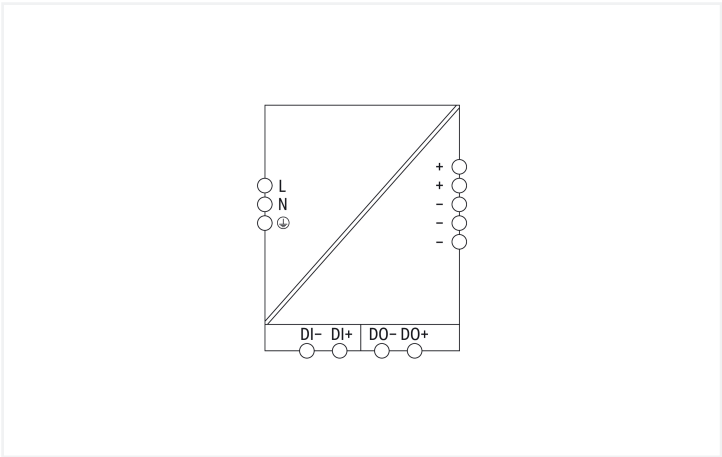




Features:

- 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                              |                                                                | Output                              |                                                                                              |
| Phases                             | 1                                                              | Nominal output voltage $U_{o\,nom}$ | 24 VDC (SELV)                                                                                |
| Nominal input voltage $U_{i\,nom}$ | 1 x 100 ... 240 VAC                                            | Output voltage range                | 24 ... 28 VDC (adjustable)                                                                   |
| Input voltage range                | 1 x 90 ... 264 VAC                                             | Default Setting                     | 24 VDC                                                                                       |
| Nominal mains frequency range      | 50 ... 60 Hz                                                   | Nominal output current $I_{o\,nom}$ | 5 A (24 VDC)                                                                                 |
| Input current $I_i$                | ≤ 1 A (240 VAC; nominal load); ≤ 1.8 A (100 VAC; nominal load) | Nominal output power                | 120 W                                                                                        |
| Inrush current                     | after 1 ms                                                     | Deviation                           | ≤ 1 %                                                                                        |
| Power factor correction (PFC)      | Active                                                         | Residual ripple                     | ≤ 70 mV (peak-to-peak)                                                                       |
| Mains failure hold-up time         | ≥ 20 ms (230 VAC)                                              | 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                          | 7.5 ADC (5 s)                                                                                |
|                                    |                                                                | TopBoost                            | Up to 600 %                                                                                  |

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



| Efficiency/Power Losses   |                                                                  |
|---------------------------|------------------------------------------------------------------|
| Power loss P <sub>I</sub> | ≤ 1 W (standby); ≤ 2 W (no load); ≤ 10 W (230 VAC; nominal load) |
| Efficiency (typ.)         | 93.8 % (230 VAC; 5 A; 25 °C)                                     |

| Circuit Protection        |                             |
|---------------------------|-----------------------------|
| Internal fuse             | T 6.3 A / 250 VAC           |
| Backup fuse (recommended) | 16 A (for USA/Canada: 15 A) |

| 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                                         |
| Short-circuit-protected           | Yes                                         |
| Open-circuit-proof                | Yes                                         |
| Parallel operation                | Yes                                         |
| Series operation                  | Yes                                         |
| MTBF                              | > 1,000,000 h (per IEC 61709)               |

| Connection Data                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Connection 1                                      |                                   |
| Connection type                                   | Input/output/signaling            |
| Connection technology                             | CAGE CLAMP®                       |
| WAGO connector                                    | WAGO 721 Series                   |
| Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
| Fine-stranded conductor; with insulated ferrule   | 2.5 ... 1.5 mm² / 12 ... 16 AWG   |
| Fine-stranded conductor; with uninsulated ferrule | 1.5 ... 0.08 mm² / 16 ... 28 AWG  |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches |

| Physical data                     |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| Width                             | 35 mm / 1.378 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: 166 mm |

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



| Material data |       |
|---------------|-------|
| Fire load     | 0 MJ  |
| Weight        | 650 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>DNV<br>UL 121201 (HazLoc)<br>SEMI F47 |

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4066966115284 |
| 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 |
| EAC<br>GZO Almaty Standart                                                                                                                                             | TP TC 004/2011 | EAC CoC 03080    |
| EAC<br>GZO Almaty Standart                                                                                                                                             | TP TC 020/2011 | EAC CoC 03081    |
| UL<br>Underwriters Laboratories Inc.                                                                                                                                   | UL 61010-2-201 | E255817          |

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| MFD for SEMI F47<br>WAGO GmbH & Co. KG                  | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |



Approvals for marine applications



| Approval         | Standard             | Certificate Name |
|------------------|----------------------|------------------|
| DNV<br>DNV GL SE | DNV-CG-0339,Aug.2021 | TAA00002ZF       |

Approvals for hazardous areas



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

Downloads

Environmental Product Compliance

| Compliance Search                                        |
|----------------------------------------------------------|
| Environmental Product<br>Compliance<br>2787-2144/000-030 |



Documentation

| Manual                                                                                          |
|-------------------------------------------------------------------------------------------------|
| Product Manual Power<br>supply; Pro 2; 1-phase;<br>24 VDC output voltage;<br>5 A output current |

V 1.2.2  
18.02.2022

pdf  
7997.98 KB



| Instruction Leaflet          |
|------------------------------|
| WAGO Pro 2 Power<br>Supplies |

V 1.1.0  
26.04.2021

pdf  
4445.43 KB



Application Notes

| Application Note e!COCKPIT                                       |
|------------------------------------------------------------------|
| e!COCKPIT Application<br>Note WagoAppPower-<br>Supply (a2019012) |

1.1.1  
06.12.2021

pdf  
707.04 KB



CAD/CAE-Data

| CAD data                          |
|-----------------------------------|
| 2D/3D Models<br>2787-2144/000-030 |



Runtime Software

| Firmware                               |
|----------------------------------------|
| 2787-2144, Stromver-<br>sorgung; Pro 2 |

V 010513  
13.10.2021

zip  
1087.50 KB





1 Compatible Products

1.1 Product Expansions

1.1.1 Communication Module



[Item No.: 2789-9023](#)  
Communication module; EtherNet/IP;  
MQTT Pub/Sub; communication capability



[Item No.: 2789-9080](#)  
Communication module; IO-Link; commu-  
nication capability



[Item No.: 2789-9015](#)  
Communication module; Modbus RTU;  
RJ45; communication capability



[Item No.: 2789-9052](#)  
Communication module; Modbus TCP;  
communication capability

1.2 Optional Accessories

1.2.1 Marking

1.2.1.1 Marker carrier



[Item No.: 2789-1233](#)  
Marker carrier; for WMB or marking strips;  
Length: 33 mm