

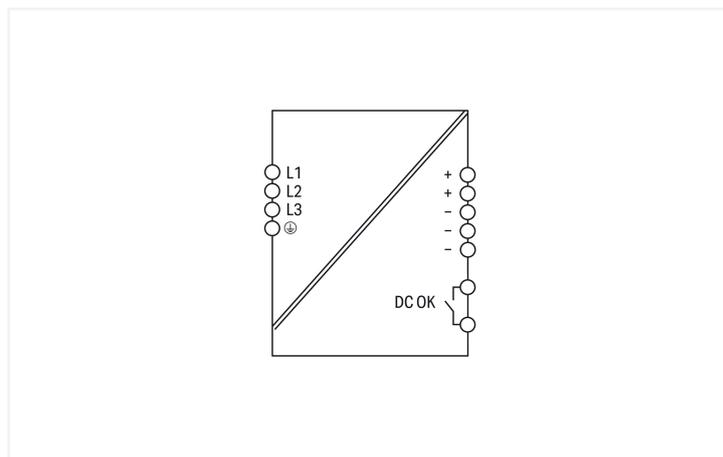
Data Sheet | Item Number: 2687-2344

Power supply; Eco 2; 3-phase; 24 VDC output voltage; 5 A output current; Power-Boost; DC OK contact

<https://www.wago.com/2687-2344>



Similar to illustration



Similar to illustration

Features:

- Power supply with PowerBoost
- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV) per EN 61010/UL 61010
- PELV can be implemented via external grounding on the DC side
- Marker slot (Item No. 2789-1233, not included) for WAGO's marking cards (WMB) and WAGO's marking strips

Technical data

| Input | |
|----------------------------------|---|
| Phases | 3 |
| Nominal input voltage U_{1nom} | 3 x 400 ... 500 VAC |
| Input voltage range | 3 x 360 ... 550 VAC |
| Nominal mains frequency range | 50 ... 60 Hz |
| Input current I_1 | ≤ 0.5 A (500 VAC; nominal load); ≤ 0.45 A (400 VAC; nominal load) |

| Input | |
|----------------------------|--|
| Inrush current | ≤ 15 A (after 1 ms) |
| Power factor | ≥ 0.5 (400 VAC; nominal load) |
| Mains failure hold-up time | ≥ 20 ms (3 x 400 VAC); ≥ 40 ms (3 x 500 VAC) |

Output

| | |
|-------------------------------------|--|
| Nominal output voltage $U_{o, nom}$ | 24 VDC (SELV) |
| Output voltage range | 24 ... 28 VDC |
| Nominal output current $I_{o, nom}$ | 5 A |
| Nominal output power | 120 W |
| Deviation | ≤ 1 % |
| Residual ripple | ≤ 50 mV (peak-to-peak) |
| Overload behavior | Constant current at 105 ... 110 %; during PowerBoost at 150 ... 155 %; shutdown and automatic restart in case of short circuit |
| PowerBoost | 7.5 ADC (5 s) |

Signaling and Communication

| | |
|-----------|---|
| Signaling | Optical status indication (overload) Optical status indication (DC OK) Digital signal output (DO) |
|-----------|---|

Efficiency/Power Losses

| | |
|-------------------|--|
| Power loss P_I | ≤ 1.3 W (no load); ≤ 12 W (nominal load) |
| Efficiency (typ.) | 91 % |

Circuit Protection

| | |
|---------------------|-------------------------------------|
| Internal fuse | No |
| Pre-fuse (required) | 3 x 16 A (for USA/Canada: 3 x 15 A) |

Safety and protection

| | |
|-----------------------------------|---|
| Isolation voltage (pri.-sec., AC) | 3510 V |
| Isolation voltage (pri.-PE, AC) | 2210 V |
| Isolation voltage (sec.-PE) | 0.5 kVDC |
| Isolation voltage (sec.-signal) | 0.5 VDC |
| Protection class | I |
| Protection type | IP20; per EN 60529 |
| Resistance to reverse feed | ≤ 32 VDC |
| Overvoltage category | III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.) |
| Pollution degree | 2 |
| Transient suppression (primary) | Varistor; gas-filled surge arrester |
| Short-circuit-protected | Yes |
| Open-circuit-proof | Yes |
| Parallel operation | Yes |
| Series operation | Yes |
| MTBF | > 2.000.000 h (per IEC 61709) |

Connection Data

Connection 1

| | |
|---|---|
| Connection type | Input/output/signaling |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO connector | WAGO 2604 Series |
| Solid conductor | 0.2 ... 4 mm ² / 24 ... 12 AWG |
| Fine-stranded conductor | 0.2 ... 4 mm ² / 24 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 2.5 mm ² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm ² |
| Strip length | 9 ... 11 mm / 0.35 ... 0.43 inches |

Physical data

| | |
|-----------------------------------|-----------------------|
| Width | 49.5 mm / 1.95 inches |
| Height | 130 mm / 5.118 inches |
| Depth from upper-edge of DIN-rail | 130 mm / 5.118 inches |

Mechanical data

| | |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material data

| | |
|-----------|-------|
| Fire load | 0 MJ |
| Weight | 800 g |

Environmental requirements

| | |
|---------------------------------|--|
| Ambient temperature (operation) | -25 ... +70 °C |
| Ambient temperature (storage) | -40 ... +85 °C |
| Relative humidity | 5 ... 96 % (no condensation permissible) |
| Derating | -3 %/K (> 45 °C) |
| Climatic category | 3K3 (per EN 60721) |
| Operating altitude (max.) | 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 UL 121201 (HazLoc) |

Commercial data

| | |
|-----------------------|---------------|
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4066966433258 |
| 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



| Approval | Standard | Certificate Name |
|---|----------------|------------------|
| EAC GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03080 |
| EAC GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03081 |
| UL Underwriters Laboratories Inc. | UL 61010-2-201 | E255817 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

Approvals for hazardous areas



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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2687-2344

Documentation

Instruction Leaflet

Stromversorgung; Eco
2 V 2.0.0
20.11.2025 pdf
791.31 KB

