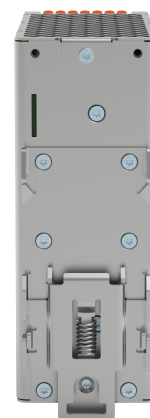
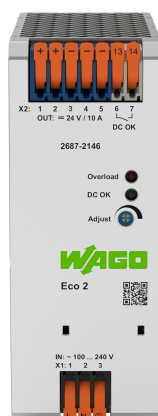
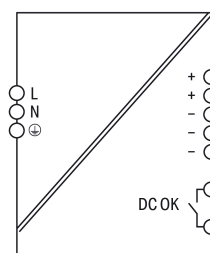


## Data Sheet | Item Number: 2687-2146

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 10 A output current; DC OK contact

<https://www.wago.com/2687-2146>



### Features:

- 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/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) 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                | 23 ... 28 VDC (adjustable)                                                                           |
| Input voltage range                | 1 x 90 ... 264 VAC                                                         | Default Setting                     | DC 24 V                                                                                              |
| Nominal mains frequency range      | 50 ... 60 Hz; 0 Hz                                                         | Nominal output current $I_{o\,nom}$ | 10 A (24 VDC)                                                                                        |
| Input current $I_i$                | $\leq 1.1$ A (230 VAC; nominal load); $\leq 2.7$ A (100 VAC; nominal load) | Nominal output power                | 240 W                                                                                                |
| Inrush current                     | $\leq 25$ A (after 1 ms)                                                   | Deviation                           | $\leq 1$ %                                                                                           |
| Power factor correction (PFC)      | Active                                                                     | Residual ripple                     | $\leq 75$ mV (peak-to-peak)                                                                          |
| Mains failure hold-up time         | $\geq 25$ ms (230 VAC)                                                     | Overload behavior                   | Constant current up to 105 ... 110 %; shutdown and automatic restart in the event of a short circuit |

| Signaling and communication |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Signaling                   | Optical status indication (overload)<br>Optical status indication (DC OK)<br>Digital signal output (DO) |

| Efficiency/power losses |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| Power loss $P_i$        | $\leq 3$ W (230 VAC; no load); $\leq 13$ W (230 VAC; nominal load) |
| Efficiency (typ.)       | 93 %                                                               |

| Circuit protection |                   |
|--------------------|-------------------|
| Internal fuse      | T 6.3 A / 250 VAC |

| 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                                   |
| Overvoltage category              | III ( $\leq 2000$ m a.s.l.); II ( $> 2000$ m a.s.l.) |
| Pollution degree                  | 2                                                    |
| 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                             | Push-in CAGE CLAMP®                |
| WAGO connector                                    | WAGO 2604 Series                   |
| Solid conductor                                   | 0.2 ... 4 mm² / 24 ... 12 AWG      |
| Fine-stranded conductor                           | 0.2 ... 4 mm² / 24 ... 12 AWG      |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 2.5 mm²                   |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                   |
| Strip length                                      | 9 ... 11 mm / 0.35 ... 0.43 inches |



| Physical data                     |  |                       |
|-----------------------------------|--|-----------------------|
| Width                             |  | 50 mm / 1.97 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 (Device starts at -40 °C (type-tested)) |
| 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<br>EN 61010-2-201<br>EN 61204-3<br>UL 61010-1<br>UL 61010-2-201<br>UL 121201 (HazLoc) |

| Commercial data       |  |               |
|-----------------------|--|---------------|
| PU (SPU)              |  | 1 pcs         |
| Packaging type        |  | Box           |
| Country of origin     |  | CN            |
| GTIN                  |  | 4066966342451 |
| Customs tariff number |  | 85044083900   |

| Product Classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39121004             |
| ETIM 9.0               |  | EC002540             |
| ETIM 8.0               |  | 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 |                  | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |

Approvals for hazardous areas

| Approval                                                           | Standard  | Certificate Name                  |
|--------------------------------------------------------------------|-----------|-----------------------------------|
| UL<br>Underwriters Laboratories<br>Inc. (HAZARDOUS LOCA-<br>TIONS) | UL 121201 | UL_E198726_Serie<br>2687-2146 (x) |

Downloads

| Environmental Product Compliance              |  |
|-----------------------------------------------|--|
| Compliance Search                             |  |
| Environmental Product<br>Compliance 2687-2146 |  |

Documentation

| Manual                                                                             |                       |                   |  | Bid Text  |                  |  |
|------------------------------------------------------------------------------------|-----------------------|-------------------|--|-----------|------------------|--|
| Power supply; Eco 2; 1-<br>phase; 24 VDC output<br>voltage; 10 A output<br>current | V 1.1.0<br>19.03.2024 | pdf<br>4686.20 KB |  | 2687-2146 | xml<br>7.29 KB   |  |
|                                                                                    |                       |                   |  | 2687-2146 | docx<br>29.98 KB |  |



| Instruction Leaflet |                       |                   |                                                                                   |
|---------------------|-----------------------|-------------------|-----------------------------------------------------------------------------------|
| Power Supply; Eco 2 | V 1.0.0<br>02.02.2023 | pdf<br>2308.20 KB |  |

| CAD/CAE-Data              |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|
| CAD data                  |                                                                                   |
| 2D/3D Models<br>2687-2146 |  |

| 1 Compatible Products    |
|--------------------------|
| 1.1 Optional Accessories |
| 1.1.1 Marking            |
| 1.1.1.1 Marker carrier   |



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