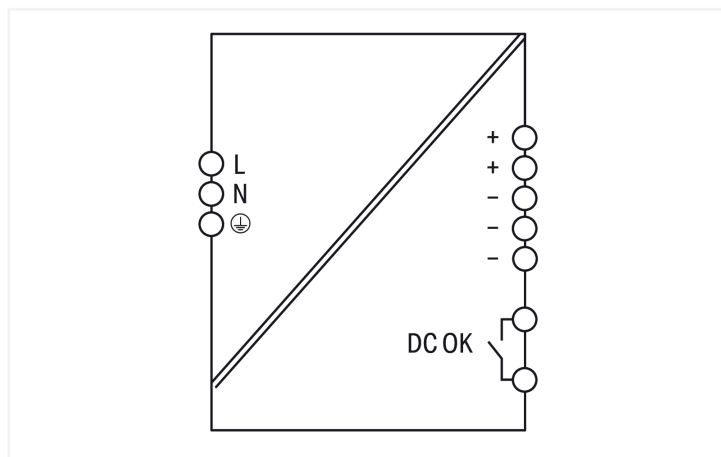


Data Sheet | Item Number: 2687-2146

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	≤ 1.1 A (230 VAC; nominal load); ≤ 2.7 A (100 VAC; nominal load)	Nominal output power	240 W
Inrush current	≤ 25 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 75 mV (peak-to-peak)
Mains failure hold-up time	≥ 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		Efficiency/power losses	
Signaling	Optical status indication (overload) Optical status indication (DC OK) Digital signal output (DO)	Power loss P_i	≤ 3 W (230 VAC; no load); ≤ 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 (≤ 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 1	Input/output/signaling
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG



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 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201

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



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	

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	UL_E198726_Serie 2687-2146 (x)

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2687-2146



Documentation

Manual
Power supply; Eco 2; 1- phase; 24 VDC output voltage; 10 A output current

V 1.1.0
19.03.2024

pdf
4686.20 KB



Bid Text
2687-2146
2687-2146

xml
7.29 KB



docx
29.98 KB



Instruction Leaflet

Power Supply; Eco 2

V 1.0.0
02.02.2023

pdf
2308.20 KB





CAD/CAE-Data	
CAD data	
2D/3D Models 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