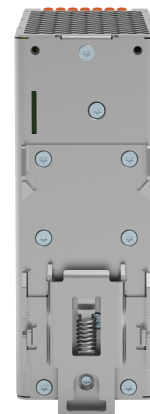
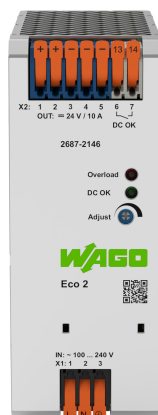
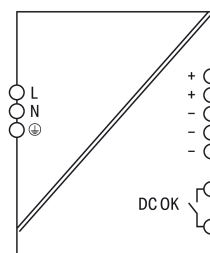


Data Sheet | Item Number: 2687-2146

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	24 VDC
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	≥ 0.95	Residual ripple	$\leq 75\ mV$ (peak-to-peak)
Power factor correction (PFC)	Active	Overload behavior	Constant current up to 105 ... 110 %; shut-down and automatic restart in the event of a short circuit
Mains failure hold-up time	$\geq 25\ ms$ (230 VAC)		

Signaling and Communication	
Signaling	Optical status indication (overload) Optical status indication (DC OK) 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.)	94 %

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	$> 2.000.000\ h$ (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 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated fer- rule	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		
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 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 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		
<div><div><div>EAC</div><div>EAC</div><div></div></div></div>					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc.	UL 61010-2-201		UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

<div><div></div></div>		
Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	UL_E198726_Serie 2687-2146 (x)

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2687-2146	

Documentation

Manual				Bid Text		
Power supply; Eco 2; 1-phase; 24 VDC output voltage; 10 A output current	V 1.1.0	pdf	4686.20 KB	2687-2146	xml	
	19.03.2024				7.29 KB	
				2687-2146	docx	
	V 1.0.0		pdf		29.98 KB	
	02.02.2023		2308.20 KB			

Instruction Leaflet			
Power Supply; Eco 2	V 1.0.0	pdf	
	02.02.2023	2308.20 KB	

CAD data

2D/3D Models
2687-2146

1.1 Optional Accessories

1.1.1.1 Marker carrier



Item No.: 2789-1233

Marker carrier; for WMB or marking strips;
Length: 33 mm