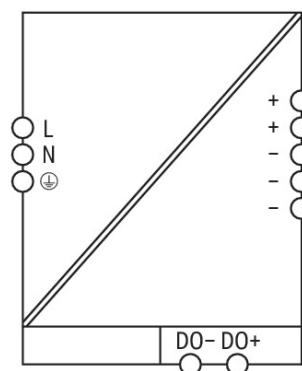


Data Sheet | Item Number: 2687-2144

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current; DC OK contact

<https://www.wago.com/2687-2144>



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	
Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 90 ... 264 V
Nominal mains frequency range	50 ... 60 Hz; 0 Hz
Input current I_i	$\leq 0.8\text{ A}$ (230 VAC; nominal load); $\leq 1.5\text{ A}$ (100 VAC; nominal load)
Inrush current	$\leq 20\text{ A}$ (after 1 ms)
Power factor correction (PFC)	active
Mains failure hold-up time	$\geq 20\text{ ms}$ (230 VAC)

Signaling and communication	
Signaling	Optical status indication (overload) Optical status indication (DC OK) Digital signal output (DO)

Circuit protection	
Internal fuse	T 3.15 A / 250 VAC
Backup fusing (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)	DC 0.5 kV
Isolation voltage (sec.-signal)	DC 0.5 kV
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III ($\leq 2000\text{ m a.s.l.}$); II ($> 2000\text{ m a.s.l.}$)
Pollution degree	2
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	No
MTBF	$> 1,000,000\text{ h}$ (per IEC 61709)

Connection data	
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	38 mm / 1.496 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	130 mm / 5.118 inches

Output	
Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 23 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{nom}}$	5 A (24 VDC)
Nominal output power	120 W
Deviation	$\leq 1\%$
Residual ripple	$\leq 75\text{ mV}$ (peak-to-peak)
Overload behavior	Constant current up to 125 %; shutdown and automatic restart in the event of a short circuit

Efficiency/power losses	
Power loss P_i	$\leq 3\text{ W}$; $\leq 12\text{ W}$ (nominal load)
Efficiency (typ.)	90 %



Mechanical data					
Mounting type		DIN-35 rail			
Material data					
Fire load		0 MJ			
Weight		620 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 type label			
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					
ETIM 8.0		EC002540			
ETIM 7.0		EC002540			
PU (SPU)		1 pcs			
Country of origin		CN			
GTIN		4066966207439			
Customs tariff number		85044083900			
Approvals / Certificates					
General approvals		Approvals for hazardous areas			
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 61010-2-201	UL-US-2218925-0_UL-CA-2218432-0	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726
Downloads					
Environmental Product Compliance					



Compliance Search			
Environmental Product Compliance 2687-2144			

Documentation			
Manual		Bid Text	
Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current	V 1.0.0 19.12.2022	pdf 4207.46 KB	
		2687-2144	xml 7.26 KB
		2687-2144	docx 29.77 KB

Instruction Leaflet			
Power supply; Eco 2	V 1.3.0 08.11.2022	pdf 2307.76 KB	

CAD/CAE-Data	
CAD data	
2D/3D Models 2687-2144	

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