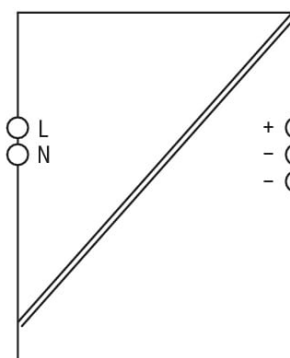


Data Sheet | Item Number: 2687-2142

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

<https://www.wago.com/2687-2142>



Features:

- 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 (2789-1223, not included) for WAGO marking cards (WMB) and WAGO marking strips

Technical data



Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 90 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	$\leq 0.3\text{ A}$ (230 VAC; nominal load); $\leq 0.6\text{ A}$ (100 VAC; nominal load)
Inrush current	$\leq 10\text{ A}$ (after 1 ms)
Power factor correction (PFC)	passive
Mains failure hold-up time	$\geq 120\text{ ms}$ (230 VAC); $\geq 15\text{ ms}$ (110 VAC)

Signaling and communication	
Signaling	1 x LED DC OK (green)

Circuit protection	
Internal fuse	T 1 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection		
Isolation voltage (pri.-sec., AC)		3510 V
Protection class		II
Protection type		IP20; per EN 60529
Resistance to reverse feed		$\leq$ DC 35 V
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		Yes
MTBF		$> 1,000,000\text{ h}$ (per IEC 61709)

Connection data	
Connection type 1	Input/output
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	25 mm / 0.984 inches
Height	100 mm / 3.937 inches
Depth from upper-edge of DIN-rail	100 mm / 3.937 inches

Output	
Nominal output voltage $U_{o\,nom}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 29 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Deviation	$\leq 1\%$
Residual ripple	$\leq 30\text{ mV}$ (peak-to-peak, at 230 VAC)
Overload behavior	Constant power up to 125 %; shutdown and automatic restart in the event of a short circuit

Efficiency/power losses	
Power loss P_i	$\leq 0.2\text{ W}$ (no load); $\leq 4.3\text{ W}$ (nominal load)
Efficiency (typ.)	88 %



Mechanical data					
Mounting type	DIN-35 rail				
Material data					
Fire load	0 MJ				
Weight	160 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/manual				
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	4066966156492				
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	E255817	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726
Downloads					
Environmental Product Compliance					



Compliance Search	
Environmental Product Compliance 2687-2142	↓

Documentation			
Manual		Bid Text	
Product Manual Power supply Eco 2; 1-phase; 24 VDC output voltage; 1.25 A output current	V 1.0.0 03.08.2021	pdf 2790.92 KB	↓
		2687-2142	xml 7.11 KB ↓
		2687-2142	docx 33.09 KB ↓

Instruction Leaflet			
Stromversorgung; Eco 2	V 1.0.0 16.06.2021	pdf 2279.02 KB	↓

CAD/CAE-Data	
CAD data	
2D/3D Models 2687-2142	↓

1 Compatible Products
1.1 Optional Accessories
1.1.1 Marking
1.1.1.1 Marker carrier



Item No.: 2789-1223
Marker carrier; for WMB or marking strips;
Length: 23 mm