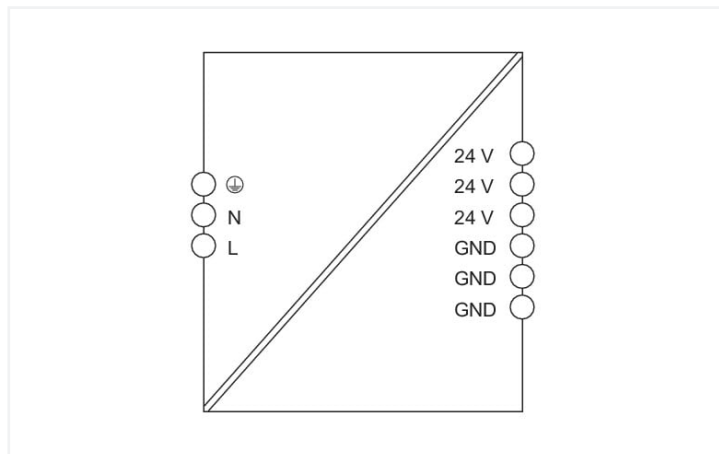


Data Sheet | Item Number: 787-2850

Power supply; Compact; 1-phase; 24 VDC output voltage; 1.25 A output current



<https://www.wago.com/787-2850>



Features:

- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201

Technical data

Input	
Phases	1
Nominal input voltage $U_{i, \text{nom}}$	1 x AC 110 ... 240 V
Input voltage range	1 x AC 100 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	$\leq 0.55 \text{ A}$ (110 VAC); $\leq 0.33 \text{ A}$ (240 VAC)
Inrush current	$\leq 24 \text{ A}$ (NTC)
Mains failure hold-up time	$\geq 95 \text{ ms}$ (230 VAC)

Output	
Nominal output voltage $U_{o, \text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 24 ... 24 V (fixed setting)
Nominal output current $I_{o, \text{nom}}$	1.25 A (24 VDC)
Nominal output power	30 W
Deviation	$\leq 2 \%$
Residual ripple	$\leq 60 \text{ mV}$ (peak-to-peak)
Overload behavior	Hiccup

Signaling and communication

Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses

Power loss P_i	$\leq 0.5 \text{ W}$; $\leq 4 \text{ W}$ (230 VAC; nominal load)
Power loss (max.) $P_{I(\text{max})}$	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %

Circuit protection

Internal fuse	T 1.25 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection

Isolation voltage (pri.-sec., AC)	3920 V
Isolation voltage (pri.-PE, AC)	2470 V
Isolation voltage (sec.-PE)	DC 0.5 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 32 V
Overtoltage category	III
Pollution degree	2
Overtoltage protection; secondary	≤ 32 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 2,500,000 h (per EN/IEC 61709 at +40 °C)

Connection data

Connection type 1	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 ... 2.5 mm ² / 20 ... 12 AWG
Fine-stranded conductor	0.25 ... 2.5 mm ² / 22 ... 12 AWG
Strip length	10 ... 11 mm / 0.39 ... 0.43 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 805 Series
Solid conductor 2	0.2 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor 2	0.2 ... 1.5 mm ² / 24 ... 16 AWG
Strip length 2	9 ... 10 mm / 0.35 ... 0.39 inches
Cable length (max.)	30 m

Physical data

Width	36 mm / 1.417 inches
Height	90 mm / 3.543 inches
Depth	62 mm / 2.441 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Flammability class per UL94	V0
Fire load	0.103 MJ
Weight	120 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Nominal mounting position; -25 ... +55 °C (in any mounting position))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-1.7 %/K (> 55 °C)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61204-3 EN 61010-1 EN 61010-2-201 cULus 61010-1 cULus 61010-2-201 DNV SEMI F47

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143810906
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC ROSTEST-Moskau	TP TC 004/2011, TP TC 020/2011	RU_C-DE.AJA46. B.04525_19
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001ZJ

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 787-2850	↓

Documentation

Bid Text			
787-2850	04.07.2019	xml 6.98 KB	↓
787-2850	04.07.2019	docx 20.27 KB	↓

Instruction Leaflet			
Power Supply Compact	V 2.0.0 19.07.2022	pdf 2159.95 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-2850	↓

CAE data	
EPLAN Data Portal 787-2850	↓
ZUKEN Portal 787-2850	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Tool

1.1.1.1 Operating tool



Item No.: 210-720
 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured