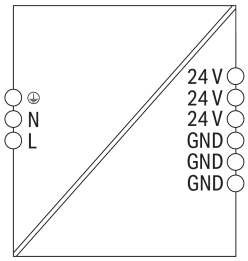
Data Sheet | Item Number: 787-2850

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

Output

Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 24 VDC (fixed setting)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Deviation	≤ 2 %
Residual ripple	≤ 60 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_l	≤ 0.5 W; ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %

Circuit Protection

Internal fuse	T 1.25 A / 250 VAC
Backup fuse (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)	0.5 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 32 VDC
Overvoltage category	III
Pollution degree	2
Overvoltage 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

Cable length (max.)	30 m

Connection 1

Connection type	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 … 2.5 mm² / 20 … 12 AWG
Fine-stranded conductor	0.25 … 2.5 mm² / 22 … 12 AWG
Strip length	10 … 11 mm / 0.39 … 0.43 inches

Connection 2

Connection type	Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 805 Series
Solid conductor	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inches

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

Housing design	DIN-rail-mount enclosure
Mounting type	DIN-35 rail

Continued on next page

Material data

Flammability class per UL94	V0
Fire load	0.963 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)
Climatic category	3K3 (per EN 60721)

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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143810906
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

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
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	-	-

Continued on next page

Approvals for marine applications

Approval	Standard	Certificate Name
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA00001ZJ

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2850

Documentation

Manual

WAGO Power Supplies

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