

Data Sheet | Item Number: 787-2857

Power supply; Compact; 1-phase; 18 VDC output voltage; 1.25 A output current;
DC-OK LED

<https://www.wago.com/787-2857>



Features:

- WAGO's 787-2857 Switched-Mode Power Supply is specially designed to supply the 753-647 DALI Multi-Master Module.
- Several DALI Multi-Master Modules can be supplied in parallel.
- 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) per EN/UL 61010-1 or EU/UL 61010-2-201

Technical data

Input

Phases	1
Nominal input voltage $U_{i, \text{nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 100 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	≤ 0.4 A (100 VAC); ≤ 0.2 A (240 VAC)
Inrush current	≤ 24 A (NTC)
Mains failure hold-up time	≥ 95 ms (230 VAC)

Output

Nominal output voltage $U_{o, \text{nom}}$	DC 18 V (SELV)
Nominal output current $I_{o, \text{nom}}$	1.25 A (18 VDC)
Nominal output power	22 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_I	≤ 0.5 W (230 VAC; no load); ≤ 4 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 V
Protection class	I
Protection type	IP20; per EN 60529
Oversvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Pollution degree	2
Oversvoltage 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 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)
Operating altitude (max.)	5000 m

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

Commercial data

PU (SPU)	1 pcs
Country of origin	CN
GTIN	4066966241730
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 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	UL-US-2229325-0_UL- CA-2228751-0

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

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 787-2857	↓
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Documentation

Bid Text			
787-2857	11.05.2022	xml 6.99 KB	↓
787-2857	11.05.2022	docx 33.09 KB	↓

Instruction Leaflet			
Stromversorgung; Compact; 1-phasig;	V 1.0.0 13.10.2022	pdf 2157.90 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-2857	↓