

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		Output	
Phases	1	Nominal output voltage U _{o nom}	DC 18 V (SELV)
Nominal input voltage U _{i nom}	1 x AC 100 ... 240 V	Nominal output current I _{o nom}	1.25 A (18 VDC)
Input voltage range	1 x AC 100 ... 264 V	Nominal output power	22 W
Nominal mains frequency range	50 ... 60 Hz	Deviation	≤ 2 %
Input current I _i	≤ 0.4 A (100 VAC); ≤ 0.2 A (240 VAC)	Residual ripple	≤ 60 mV (peak-to-peak)
Inrush current	≤ 24 A (NTC)	Overload behavior	Hiccup
Mains failure hold-up time	≥ 95 ms (230 VAC)		
Signaling and communication		Efficiency/power losses	
Signaling	1 x Status indication LED (green)	Power loss P _I	≤ 0.5 W (230 VAC; no load); ≤ 4 W (230 VAC; nominal load)
Operation status indicator	Green LED (U _o)	Power loss (max.) P _{I (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	
Overvoltage category		III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)	
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			
Connection type 1		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 type 2		Output	
Connection technology 2		Push-in CAGE CLAMP®	
WAGO connector 2		WAGO 805 Series	
Solid conductor 2		0.2 ... 1.5 mm² / 24 ... 16 AWG	
Fine-stranded conductor 2		0.2 ... 1.5 mm² / 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

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

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
	Approval	Standard
	Standard	Certificate Name
	Certificate Name	
UL	UL 61010-2-201	UL-US-2229325-0_UL-CA-2228751-0
Underwriters Laboratories Inc.		
	Approval	Standard
	Standard	Certificate Name
	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



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

