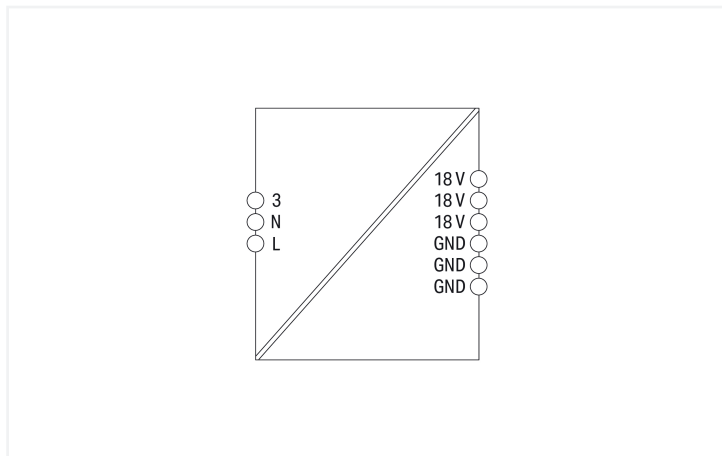


# Data Sheet | Item Number: 787-2857

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

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



## Features:

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

### Output

Nominal output voltage $U_{o, nom}$	18 VDC (SELV)
Nominal output current $I_{o, nom}$	1.25 A (18 VDC)
Nominal output power	22 W
Deviation	$\leq 2$ %
Residual ripple	$\leq 60$ 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 $P_i$	$\leq 0.5$ W (230 VAC; no load); $\leq 4$ W (230 VAC; nominal load)
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 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 VDC
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III ( $\leq 2000$ m a.s.l.); II ( $> 2000$ m a.s.l.)
Pollution degree	2
Overvoltage protection; secondary	$\leq 32$ 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
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### Connection 1

Connection type	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor	0.25 ... 2.5 mm <sup>2</sup> / 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 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor	0.2 ... 1.5 mm <sup>2</sup> / 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

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
Packaging type	Box
Country of origin	CN
GTIN	4066966241730
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
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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	<a href="#">↓</a>

**Documentation**

Bid Text			
787-2857	11.05.2022	xml 6.99 KB	<a href="#">↓</a>
787-2857	11.05.2022	docx 33.09 KB	<a href="#">↓</a>

Instruction Leaflet			
Stromversorgung; Compact; 1-phasig;	V 1.0.0 13.10.2022	pdf 2157.90 KB	<a href="#">↓</a>

CAD/CAE-Data

CAD data

2D/3D Models  
787-2857

