

Data sheet | Item number: 787-1007

Switched-mode power supply; for DALI module (753-647); 1-phase; 18 VDC
output voltage; 1.1 A output current; 2,50 mm²



www.wago.com/787-1007



Subject to changes. Please also observe the further product documentation!

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We are always happy to take your call at +49 (571) 887-44222.



Item description

WAGO's 787-1007 Switched-Mode Power Supply is specially designed to supply the 753-647 DALI Multi-Master Module. This unit features a 54 mm wide DIN-rail-mount enclosure with an input voltage range of 85 to 264 VAC (120 ... 300 VDC). The power supply provides an output voltage of 18 VDC and a maximum output current of 1100 mA – enough to supply up to five parallel modules. The maximum current per DALI line is limited to 200 mA in each DALI Multi-Master Module.

- Supplies up to five 753-647 DALI Multi-Master Modules*
- Suitable for protection class II equipment
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes

Data

Technical data

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Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 85 ... 264 V; DC 120 ... 300 V
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	≤ 0.4 A (230 VAC); ≤ 0.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 18 V (SELV)
Default setting	DC 18 V
Nominal output current $I_{o\text{nom}}$	1.1 A (18 VDC); 0.8 A (18 VDC; in any mounting position)
Nominal output power	19.8 W
Deviation	≤ 2 %
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{nom}}$ (typ.)
Overload behavior	Constant current

Signaling and Communication

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

Efficiency/power losses

Power loss P_i	≤ 3 W; ≤ 6 W (nominal load)
Efficiency (typ.)	80 %

Circuit protection

Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

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Safety and protection

Protection class	II
Protection type	IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Short-circuit-protected	Yes
Open-circuit-proof	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type 1	Input/Output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 740 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches

Physical data

Width	54 mm / 2.126 inches
Height	89 mm / 3.504 inches
Depth	59 mm / 2.323 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

Material Data

Flammability class per UL94	V0
Weight	170 g

Environmental requirements

Ambient temperature (operation)	-25 ... +60 °C
Ambient temperature (storage)	-25 ... +80 °C
Relative humidity	5 ... 96 % (no condensation permissible)

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Climatic category

3K3 (per EN 60721)

Standards and specifications

Conformity marking

CE

Standards/specifications

EN 61010-1
 EN 61010-2-201
 EN 61204-3
 UL 60950-1
 UL 508
 DNV

Commercial data

Product Group

6 (INTERFACE ELECTRONIC)

eCl@ss 10.0

27-04-07-01

eCl@ss 9.0

27-04-07-01

ETIM 8.0

EC002540

ETIM 7.0

EC002540

Recupel Type

PU (SPU)

1 pcs

Packaging type

box

Country of origin

CN

GTIN

4050821430575

Customs tariff number

85044083900

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates**General approvals**

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B. 00089_19
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815

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Optional accessories

Tool

Operating tool		
Item no.: 210-769 SCREWDRIVER; green		www.wago.com/210-769
Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured		www.wago.com/210-720

Marking accessories

Marking strip		
Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white		www.wago.com/210-831
Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white		www.wago.com/210-832

Downloads

Documentation

Bid Text

787-1007 X81 - Datei	2019 年2月19日	xml 7.6 kB	Download
787-1007 doc - Datei	2015 年11月23日	doc 32.3 kB	Download
ausschreiben.de 787-1007		URL	Download

Instruction Leaflet

Stromversorgung f. DALI-Multi-Master-Klemme 753-647 DC 18 V, 1,1 A		pdf 165.5 kB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18日	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-1007		URL	Download
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CAE data

EPLAN Data Portal 787-1007	URL	Download
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ZUKEN Portal 787-1007	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1007	URL	Download
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Installation Notes

Product family

EPSITRON COMPACT Power

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

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