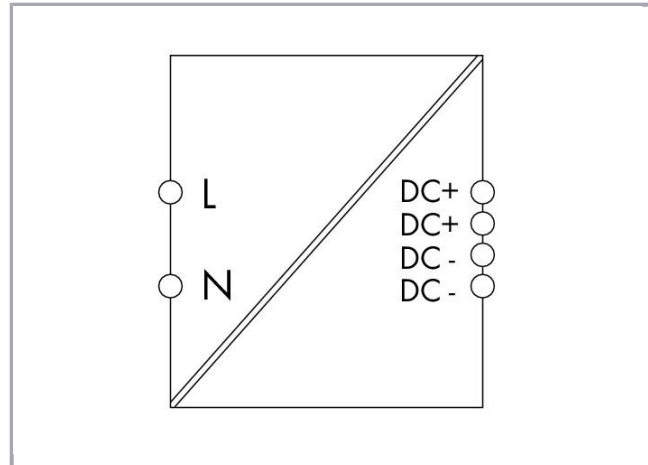


Data sheet | Item number: 787-1007

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



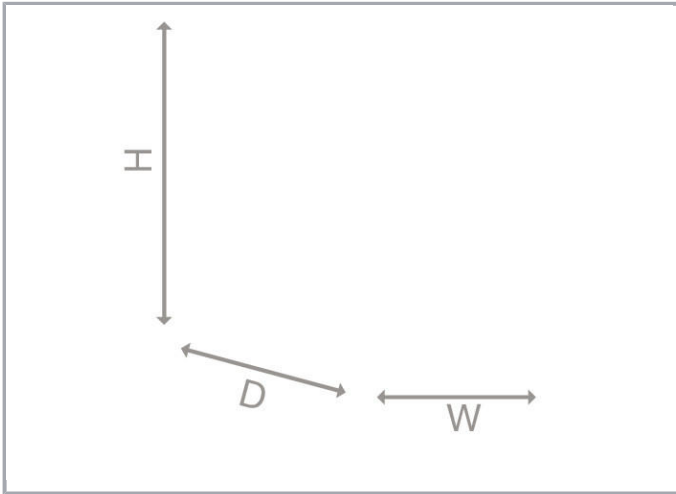
www.wago.com/787-1007



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Item description

This switched-mode power supply (787-1007) is specially designed to supply the 753-647 DALI Multi-Master Module. The 787-1007 features a 54 mm wide DIN-rail-mount enclosure with input voltage range of 85 to 264 VAC (120 to 373 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

Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	AC 100 ... 240 V
Input voltage range	AC 85 ... 264 V; DC 120 ... 373 V
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	$\leq 0,4$ A (230 VAC); $\leq 0,6$ 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)
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Factory preset	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
Adjustment accuracy	$\leq 2 \%$
Residual ripple	$\leq 100 \text{ mV}$ (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_l	$\leq 3 \text{ W}$ (no load); $\leq 6 \text{ W}$ (nominal load)
Efficiency (typ.)	80 %

Fuse protection:

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

Safety and protection:

Insulation voltage (PRI-SEC)	DC 4,242 kV
Protection class	II
Protection class	IP20 per EN 60529
Feedback voltage	$\leq \text{DC } 20 \text{ V}$
Overvoltage category	II
Short circuit protection	Yes
No-load proof	Yes
MTBF	$> 500,000 \text{ h}$ (per IEC 61709)

Connection data

Connection type (1)	Input/Output
Connection technology	CAGE CLAMP®

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WAGO terminal	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 inch

Geometrical Data

Width	54 mm / 2.126 inch
Height	89 mm / 3.504 inch
Depth	59 mm / 2.323 inch
Length from upper-edge of DIN-35 rail	55 mm / 2.165 inch

Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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Material Data

Flammability class per UL94	V0
Weight	170 g

Environmental Requirements

Surrounding air (operating) temperature	-25 ... 60 °C
Surrounding air (storage) temperature	-25 ... 80 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950; EN 61204-3; UL 60950; UL 508; DNV GL

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4050821430575
Customs Tariff No.	85044082900



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Approvals / Certificates


UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E255817
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815


Counterpart

Compatible products




tools

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


Marking accessories

	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

ferrule

	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221

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	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-262
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-263
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-302
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-322

Downloads

Documentation

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; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data

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CAD data

2D/3D Models 787-1007

[URL](#)

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CAE data

EPLAN Data Portal 787-1007

[URL](#)

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WSCAD Universe 787-1007

[URL](#)

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Installation Notes

Product family

Compact

[Show all products from the family](#)

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