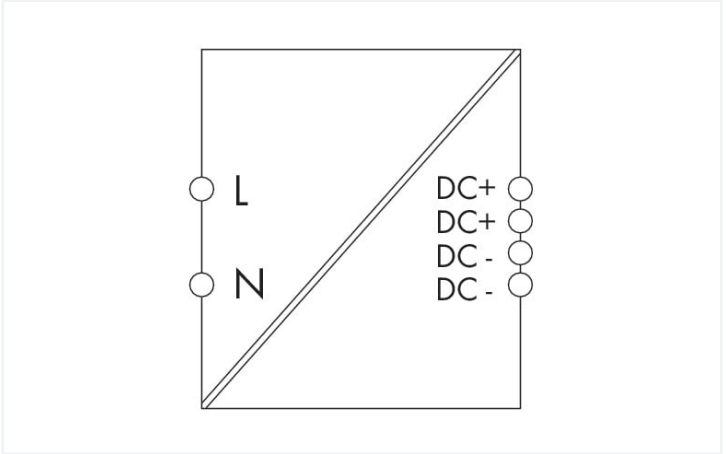


Data Sheet | Item Number: 787-1020

Switched-mode power supply; Compact; 1-phase; 5 VDC output voltage; 5.5 A output current; DC OK signal

<https://www.wago.com/787-1020>



Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Technical data

Input		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	DC 5 V (SELV)
Nominal input voltage $U_{i\ nom}$	1 x AC 100 ... 240 V	Output voltage range	DC 4.5 ... 8.5 V (adjustable)
Input voltage range	1 x AC 85 ... 264 V; DC 120 ... 300 V	Default setting	DC 5 V
Nominal mains frequency range	44 ... 66 Hz; 0 Hz	Nominal output current $I_{o\ nom}$	5.5 A (5 VDC); 3.5 A (in any mounting position)
Input current I_i	≤ 0.29 A (230 VAC); ≤ 0.56 A (110 VAC)	Nominal output power	27.5 W
Discharge current	≤ 1 mA	Deviation	≤ 2 %
Inrush current	≤ 30 A (NTC)	Residual ripple	≤ 100 mV (peak-to-peak)
Power factor correction (PFC)	passive	Current limitation	$1.1 \times I_{o\ nom}$ (typ.)
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)	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	≤ 2.4 W; ≤ 9.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\ (max.)}$	9.9 W (264 VAC / 5 VDC; 5.5 A)
Efficiency (typ.)	75 %

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



Safety and protection		
Isolation voltage (pri.-sec.)		DC 4.242 kV
Protection class		II
Protection type		IP20; per EN 60529
Resistance to reverse feed		≤ DC 10 V
Overvoltage category		II
Pollution degree		2
Transient suppression (primary)		Varistor
Overvoltage protection; secondary		≤ 16 VDC (in the event of a fault)
Short-circuit-protected		Yes
Open-circuit-proof		Yes
Parallel operation		Yes
Series operation		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 mm² / 28 ... 12 AWG
Fine-stranded conductor		0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip length		6 ... 7 mm / 0.24 ... 0.28 inches

Physical data		
Width		72 mm / 2.835 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		
Mounting type		DIN-35 rail

Material data		
Flammability class per UL94		V0
Fire load		0 MJ
Weight		240 g

Environmental requirements		
Ambient temperature (operation)		-25 ... +60 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)		-25 ... +80 °C
Ambient temperature UL (operation at U _N)		-25 ... +55 °C
Relative humidity		5 ... 96 % (no condensation permissible)
Derating		-3 %/K (> 45 °C)



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	
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143098816
Customs tariff number	85044083900

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-1020



Documentation



Bid Text			
787-1020	12.06.2019	docx 20.36 KB	↓
787-1020	24.06.2019	xml 6.83 KB	↓

Instruction Leaflet			
Power Supply COM-PACT	29-03-2021 20.12.2021	pdf 2143.15 KB	↓

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 787-1020 ↓	EPLAN Data Portal 787-1020 ↓
	WSCAD Universe 787-1020 ↓
	ZUKEN Portal 787-1020 ↓

1 Compatible Products
1.1 Optional Accessories
1.1.1 Marking
1.1.1.1 Marking strip



Item No.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	Item No.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white
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1.1.2 Tool		
1.1.2.1 Operating tool		
		
<u>Item No.: 210-720</u> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<u>Item No.: 210-769</u> SCREWDRIVER; green	