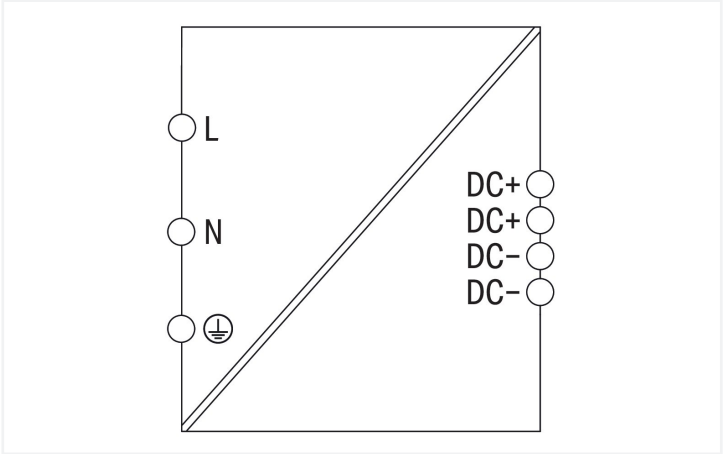


Data Sheet | Item Number: 787-1702

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

<https://www.wago.com/787-1702>



Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Technical data

Input		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	1 x 100 ... 240 VAC	Output voltage range	22 ... 26 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC; 125 ... 375 VDC	Default Setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o\ nom}$	1.25 A (24 VDC; 110 ... 240 VAC); 1 A (24 VDC; 100 ... 240 VAC)
Input current I_i	$\leq 0.3\ A$ (230 VAC); $\leq 0.6\ A$ (115 VAC)	Nominal output power	30 W
Discharge current	$\leq 1.5\ mA$	Deviation	$\leq 1\ \%$
Inrush current	$\leq 18\ A$	Residual ripple	$\leq 200\ mV$ (peak-to-peak)
Power factor correction (PFC)	Passive	Overload behavior	Constant power (in overload range: 1.05 ... 1.4 x $I_{o\ nom}$); Shutdown and automatic restart in the event of a short circuit
Mains failure hold-up time	$\geq 10\ ms$ (230 VAC)		

Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_i	$\leq 6\ W$ (230 VAC; 24 VDC; 1.25 A)
Efficiency (typ.)	87 % (230 VAC; 1.25 ADC)

Circuit protection	
Internal fuse	F 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10



Safety and protection		
Isolation voltage (pri.-sec.)		DC 4.242 kV
Isolation voltage (pri.-PE)		DC 2.2 kV
Isolation voltage (sec.-PE)		0.7 kVDC
Protection class		I
Protection type		IP20; per EN 60529
Resistance to reverse feed		≤ 30 VDC
Overvoltage category		II
Pollution degree		2
Transient suppression (primary)		Varistor
Short-circuit-protected		Yes
Open-circuit-proof		Yes
Parallel operation		Yes
Series operation		Yes, for 2 devices of the same type
MTBF		> 300,000 h (per IEC 61709)

Connection data		
Connection type 1		Input/output
Connection technology		CAGE CLAMP®
WAGO connector		WAGO 236 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
Note (conductor cross-section)		12 AWG: THHN, THWN

Physical data		
Width		30 mm / 1.181 inches
Height		90 mm / 3.543 inches
Depth from upper-edge of DIN-rail		99 mm / 3.898 inches

Mechanical data		
Mounting type		DIN-35 rail Screw mount

Material data		
Fire load		0.129 MJ
Weight		257 g

Environmental requirements		
Ambient temperature (operation)		-20 ... +60 °C
Ambient temperature (storage)		-25 ... +75 °C
Relative humidity		10 ... 95 % (no condensation permissible)
Derating		-4 %/K (> 45 °C)
Climatic category		3K3 (per EN 60721)



Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3 EN 60335-1 EN 62368-1 UL 60950-1 UL 508 SEMI F47

Commercial data	
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143372459
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	f8698786-e477-495b-941f-4f919d74e02a
SCIP notification number (Czech Republic)	99a56387-ebca-4ccd-ad92-657d3e95a071

Approvals / Certificates											
General approvals		Declarations of conformity and manufacturer's declarations									
  											
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 508	E255817									
UR Underwriters Laboratories Inc.	UL 60950-1	E255815									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>MFD for SEMI F47 WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name									
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-									
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-									



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1702

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Documentation

Bid Text

787-1702

01.10.2019

xml

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787-1702

01.10.2019

docx

20.55 KB

↓

ausschreiben.de

787-1702

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Instruction Leaflet

ECO Power Switched-Mode Power Supplies

V 1.5

21.12.2020

pdf

250.06 KB

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CAD/CAE-Data

CAD data

2D/3D Models

787-1702

↓

CAE data

EPLAN Data Portal

787-1702

↓

WSCAD Universe

787-1702

↓

ZUKEN Portal

787-1702

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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

1.1.2 Tool

1.1.2.1 Operating tool



[Item No.: 210-720](#)
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



[Item No.: 210-769](#)
SCREWDRIVER; green