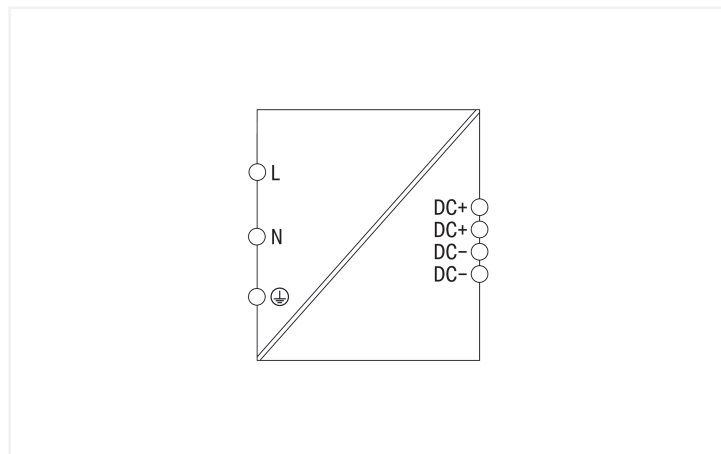


## Data Sheet | Item Number: 787-1701

Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 2 A output current; DC-OK LED

<https://www.wago.com/787-1701>



Similar to illustration

### 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; 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 $U_{o, nom}$	12 VDC (SELV)
Nominal input voltage $U_{i, nom}$	1 x 100 ... 240 VAC	Output voltage range	10 ... 14 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC; 125 ... 375 VDC	Default Setting	12 VDC
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o, nom}$	2 A (12 VDC; 110 ... 240 VAC); 1.6 A (12 VDC; 100 ... 240 VAC)
Input current $I_i$	$\leq 0.7$ A (100 VAC)	Nominal output power	24 W
Discharge current	$\leq 3.5$ mA	Deviation	$\leq 1$ %
Inrush current	$\leq 18$ A	Residual ripple	$\leq 150$ 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 DC OK LED (green)
Operation status indicator	Green LED ( $U_o$ )

### Efficiency/Power Losses

Power loss $P_i$	$\leq 6$ W (230 VAC; 12 VDC; 2 A)
Efficiency (typ.)	80 % (230 VAC; 2 ADC)

### Circuit Protection

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

### Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Isolation voltage (pri.-PE)	2.2 kVDC
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 14 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

Note (conductor cross-section) 12 AWG: THHN, THWN

#### Connection 1

Connection type	Input/output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 236 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches

### 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	250 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 61558-2-6 EN 62368-1 SEMI F47

### Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143656023
Customs tariff number	85044083900

### Product Classification

UNSPSC	39121004
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	4527369a-7479-4512-a4ab-cccc93eea45c
SCIP notification number (Czech Republic)	c046c5df-f40a-44e5-a226-6077f8efd221

### 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

#### Declarations of conformity and manufacturer's declarations

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 787-1701			↓

## Documentation

Bid Text			
787-1701	01.10.2019	xml 6.73 KB	↓
787-1701	01.10.2019	docx 20.12 KB	↓

Instruction Leaflet			
ECO Power Switched-Mode Power Supplies	V 1.2 21.12.2020	pdf 249.88 KB	↓

## CAD/CAE-Data

CAD data	
2D/3D Models 787-1701	↓

CAE data	
EPLAN Data Portal 787-1701	↓
ZUKEN Portal 787-1701	↓

## 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