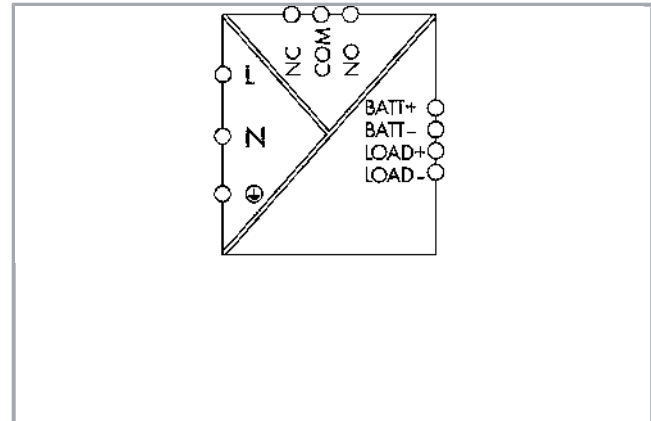
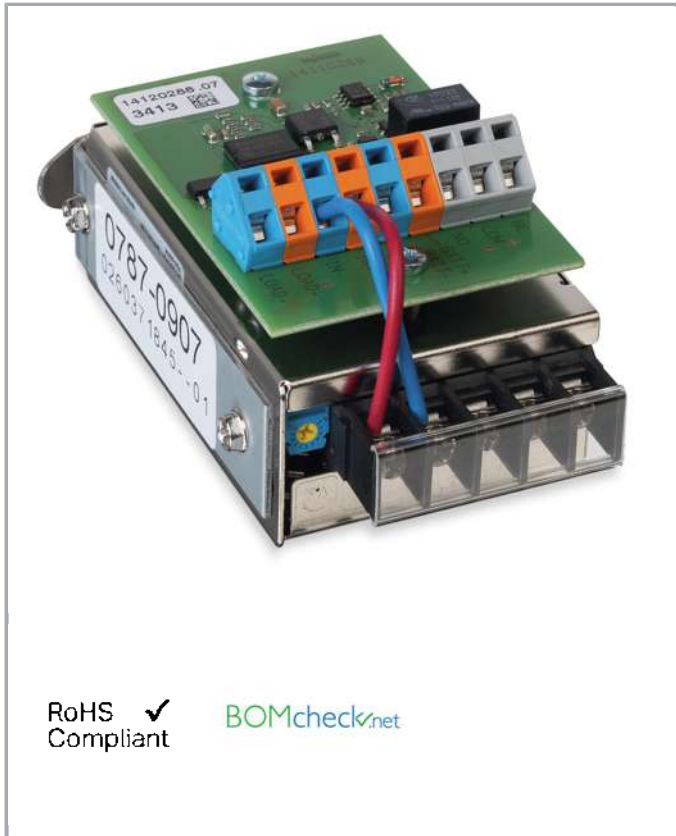


Data sheet | Item number: 787-907

Switched-mode power supply; 1-phase; 30 VDC output voltage; 0.9 A output current; with charge regulator

www.wago.com/787-907



Item description

The 787-907 Primary Switch DC Power Supply with Charging Regulator replaces the 761-9007 Power Supply with Charging Regulator in 761-9009 TO-PASS® Outdoor Housing.

The DC power supply's L, N and PE terminals are connected to the 110–240 VAC mains voltage. The power supply's 30 VDC output voltage is factory-connected to the charging regulator's IN + and IN- input terminals.

In the charging regulator, an integrated circuit performs monitoring and charging regulation of the battery module connected to the BATT+ and BATT- terminals. The load is connected at the LOAD+ and LOAD- terminals of the charging regulator. A signal contact can also be used to provide a warning against exhaustive discharge, clamping points NC, COM and NO.

The charging regulator is designed for two series-connected lead-cell, lead-gel or lead-acid battery modules (each with a nominal voltage of 12 VDC, i.e., 24 VDC in sum). In the

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

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TO-PASS® Outdoor Housing, we recommend using two 761-9008 Battery Modules, and a lead gel battery (12 VDC, capacity 1.2 Ah), which is made by Sonnenschein A512/1.2S.

Data

Technical Data

Input

Nominal input voltage $U_{i\text{ nom}}$	AC 110 ... 240 V
Input voltage range	AC 88 ... 264 V; DC 125 ... 375 V
Nominal mains frequency range	50 ... 60 Hz; 0 Hz
Input current I_i	$\leq 0,65$ A (100 VAC)
Discharge current	$\leq 0,5$ mA

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 30 V (SELV)
Factory preset	DC 30 V
Nominal output current $I_{o\text{ nom}}$	0,9 A
Nominal output power	27 W
Adjustment accuracy	≤ 1 %
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Output voltage switch-off from $1.05 \dots 1.8 \times I_{o\text{ nom}}$

Energy storage

Buffer time	depends on the capacity of the battery being used
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Signaling and communication

Signaling	1 x LED DC OK (green) 1 x Battery discharged relay contact (changeover contact; 5 ... 30 VDC; 500 mA; : 5 V, 1 mA)
Operation status indicator	Green LED (U_o)

Efficiency/Power losses:

Power loss P_l	≤ 5 W (230 VAC; 30 VDC; nominal load)
Efficiency (typ.)	81 % (230 VAC; 30 VDC; Nominal load and charge); 84 % (230 VAC;

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



30 VDC; Nominal load)

Fuse protection:

Internal fuse	F 1.6 A / 250 VAC (power supply unit, primary side); F 1.1 A / 30 VDC (battery connection)
External fuse (required)	An external DC fuse is required for the DC input voltage.
External fuse (recommended)	Circuit breaker: C10 or B16

Safety and protection:

Insulation voltage (PRI-SEC)	DC 4,242 kV
Isolation voltage (PRI-GND)	DC 2,2 kV
Insulation voltage (SEC-GND)	DC 0,7 kV
Insulation voltage (SEC-Signal)	DC 1,4 kV
Protection class	I
Protection class	IP20 (per EN 60529)
Feedback voltage	≤ DC 33 V
Transient protection, primary	Varistor
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	No
Series connection	No

Connection data

Connection technology	Screw-type connection
Solid conductor (2)	0,08 ... 2,5 mm ² / 28 ... 12 AWG
Fine-stranded conductor (2)	0,08 ... 2,5 mm ² / 28 ... 12 AWG
Note (conductor cross-section)	12 AWG: THHN, THWN

Geometrical Data

Depth	57 mm / 2.244 inch
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Material Data

Fire load	1.8 MJ
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Environmental Requirements

Derating	-2.5 %/K (50°C < T _{amb} ≤ 70°C)
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Subject to changes. Please also observe the further product documentation!



Shock and vibration resistance

Shock: 15g (per EN 60068-2-27)

Standards and specifications

Conformity marking

CE

Commercial data

Packaging type

BOX

Counterpart

Downloads

Documentation

Instruction Leaflet

EPSITRON-Primär getaktete Gleichstromversorgung mit Ladregler

pdf
285.3 kB

[Download](#)

Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

pdf
265.8 kB

[Download](#)

Installation Notes

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