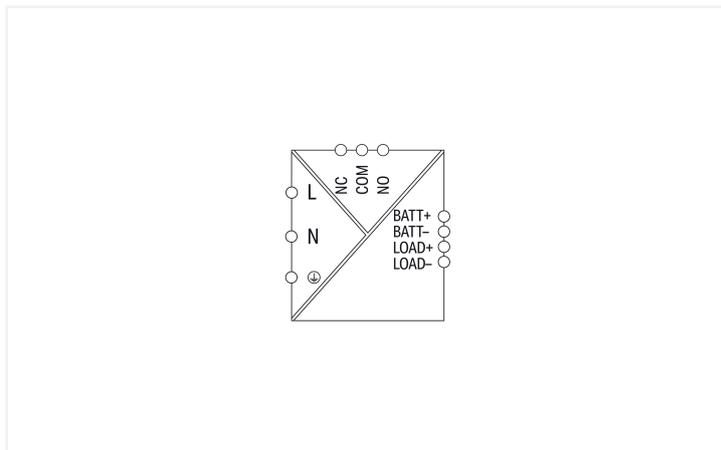


Data Sheet | Item Number: 787-907

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

<https://www.wago.com/787-907>



Short description:

WAGO's 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

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.

Technical data

Input

Nominal input voltage $U_{i, \text{nom}}$	110 ... 240 VAC
Input voltage range	88 ... 264 VAC; 125 ... 375 VDC
Nominal mains frequency range	50 ... 60 Hz; 0 Hz
Input current I_i	≤ 0.65 A (100 VAC)
Discharge current	≤ 0.5 mA

Output

Nominal output voltage $U_{o, \text{nom}}$	30 VDC (SELV)
Default Setting	30 VDC
Nominal output current $I_{o, \text{nom}}$	0.9 A
Nominal output power	27 W
Deviation	≤ 1 %
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Output voltage switch-off from 1.05 ... $1.8 \times I_{o, \text{nom}}$

Energy storage systems

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

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

Efficiency/Power Losses

Power loss P_1	≤ 5 W (230 VAC; 30 VDC; nominal load)
Efficiency (typ.)	81 % (230 VAC; 30 VDC; nominal load and charge); 84 % (230 VAC; 30 VDC; nominal load)

Circuit Protection

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

Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Isolation voltage (pri.-PE)	2.2 kVDC
Isolation voltage (sec.-PE)	0.7 kVDC
Isolation voltage (sec.-signal)	1.4 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 33 VDC
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	No
Series operation	No

Connection Data

Note (conductor cross-section)	12 AWG: THHN, THWN
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Connection 1

Connection type	Primary
Connection technology	Screw connection
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

Connection 2

Connection type	Secondary
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 236 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG

Physical data

Width	48 mm / 1.89 inches
Height	57 mm / 2.244 inches
Depth from upper-edge of DIN-rail	104 mm / 4.094 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	1.8 MJ
Weight	201.4 g

Environmental requirements

Ambient temperature (operation)	-20 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-2.5 %/K (50 °C < T _{amb} ≤ 70 °C)
Climatic category	3K3 (per EN 60721)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 60950 EN 61000-6-2 EN 61000-6-4

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821787310
Customs tariff number	85044083900

Product Classification

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	513016d8-2ccd-4200-9928-01bca0276f6a
SCIP notification number (Belgium)	b87d1537-40b0-4640-bacf-0c62fd715695
SCIP notification number (Bulgaria)	31532115-b69a-42d6-a98b-cc48ade8c184
SCIP notification number (Czech Republic)	f8b26406-7148-4c5e-8b0e-3244a9feb72f
SCIP notification number (Denmark)	dc23bb47-321c-4010-9531-66ca078a4067
SCIP notification number (Finland)	afb66d40-32fe-415e-9b71-1cd7c7693536
SCIP notification number (France)	1f4f4f7c-89c0-4496-8965-4d66e79d2d15
SCIP notification number (Germany)	d83bf070-cc9a-4a1d-8253-9b4df73b1e4e
SCIP notification number (Hungary)	4893874b-02d3-4b61-977e-61e54076dc1f
SCIP notification number (Italy)	3b80dca0-794b-4823-b838-96a7da5907f8

Environmental Product Compliance

SCIP notification number (Netherlands)	6b5e0d98-030b-4866-ac1b-a67050920073
SCIP notification number (Poland)	fad854a7-175d-4c2f-9b5e-be7147025091
SCIP notification number (Romania)	1946d3e5-144d-49cf-b05c-34e4d98cde0a
SCIP notification number (Sweden)	2a8abafe-ba97-4cc1-8d57-d6d2804e9935

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	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 787-907



Documentation

Instruction Leaflet

Primär getaktete
Gleichstromversorgung
mit Ladregler

pdf
278.63 KB

