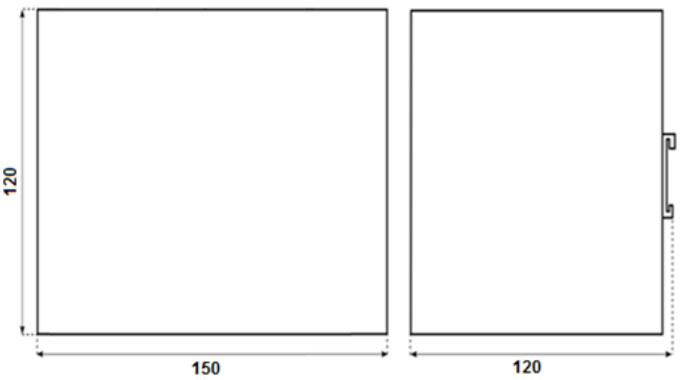
JSD-600-545/DIN_ODP



DESCRIPTION

Switching power supply - AC/DC charger with integrated basic battery management for backup power supply of electronic devices and with remote monitoring. Designed for connecting a lead-acid (VRLA) battery with a nominal voltage of 24 V. Temperature compensation of the charging voltage and protection against deep discharge of the battery. Protection of the battery input by an external fuse. Mounting on DIN35 rail. LED operation indication and relay contacts. Possibility to start backup after connecting a charged battery by pressing the BATTERY CONNECT button.

TECHNICAL PARAMETERS

Input Data

Input voltage, DC	180-260 V AC
Frequency of input	47-120 Hz
Input current, DC max.	2.6 A at 230 V AC
Input fuse	Yes (internal T 6.3 AH / 250 V AC)

Output Data

Output voltage	54.5 V DC (adjustable +/-5 %)
Output current	10 A max. (current limit - the sum of charging and output current)
Charging current	3 A max.(current limit +/- 10 %)
Output power	545 W
Temperature compensation voltage	-3 mV / article / °C (initial temperature 25 °C, terminal blocks T +, T-)
Short-circuit protection	Yes (auto resume)
Max. residual ripple	<150 mV
Battery protection	must be secured with an external fuse (30 A)
Battery disconnect voltage	42 V (+/- 0.5 V) - protection against deep discharge
Recommended battery capacity	from 12 Ah to 55 Ah

General Data

Efficiency, max.	approx. 87 %
Max. power loss (nominal load)	approx. 80 W
Resistance to voltage pulse	0.5 kV between L and N, 0,5kV L, N and frame
Isolation	4 kV between primary and secondary (double insulation), 1.5 kV primary-frame
Insulation resistance	> 20 M Ω

Cooling	forced (controlled fan speed)
IP code	IP20
Weight	1700 g
Material of enclosure	Al + FeZn sheet
Dimensions	150 x 120 x 120 mm
Class of protection	I.
Pollution degree	2
RoHS comply	Yes

Connection data	**Input**	**Output**	**Battery**	**Other (including fuse monitor)**
Number of terminals	3 (PE,L,N)	4 (++,--)	4(++,--)	5(NO,COM,NC,T+,T-)
Wire cross-section				
Solid min/max	0,5/6 mm^2	0,5/6 mm^2	0,5/6 mm^2	0,25/1,5 mm^2
	20/9 AWG	20/9 AWG	20/9 AWG	23/15 AWG
Flexible min/max	0,5/4 mm^2	0,5/4 mm^2	0,5/4 mm^2	0,25/1,5 mm^2
	20/11AWG	20/11 AWG	20/11 AWG	23/15 AWG
Tightening torque, min/max	0,5/0,6 Nm	0,5/0,6 Nm	0,5/0,6 Nm	0,5/0,6 Nm

Signal indication

Device working	LED green and relay contact (connected COM, NO)
Failure	LED red and relay changeover contact (connected COM, NC)

Remote monitoring

Ethernet interface, WWW server, SNMP or MODBUS protocols
monitored quantities - voltage, current, temperature
alarm messages - mains failure, charger failure, low battery
external alarm messages - equipment of external mains, battery and output fuses
(TTL signals AC, BATT, OUT to GND on the Fuse monitor connector)

<Download the detailed description of remote monitoring here>

Environmental conditions

Operating temperature	-20 °C to 50 °C
Relative humidity (non-condensing)	10 % to 90 % RH
Installation altitude	<3000 m above sea level

The power supply is designed for continuous operation, overvoltage category in installation 3 according to EN 61010-1 and is resistant to short-circuit at the output.

TECHNICAL STANDARDS

Safety	EN 61204-7 ed.2
EMC	EN 61000-6-1 ed.2
	EN 61000-6-3 ed.2

Limited warranty **5 years**

PACKING AND STORAGE

The product is supplied bulk packaged, user's guide for each piece is included.
Storage temperature -25 to 70 °C, relative humidity < 80 % (not condensing). It is prohibited to expose the product to mechanical shocks and injurious gases.