

SJ-2k5-2k3_2U2_4kV_110V_BP



DESCRIPTION

DC/AC converter SJ-1K5-2K3_2U2_4kV_48V_BP is designed to supply electronic devices of controlling and monitoring applications in the industrial area with voltage AC 230 V with a sinusoidal course. The drive is equipped with an automatic switch between the standard network and the backup network (output). The inverter is placed in a metal box designed for mounting in 19" cabinets, or on a shelf. Input DC connection is solved by means of screw terminals, input / output AC connection by means of IEC sockets. DC input circuits are galvanically separated from AC input / output with an electrical strength of 4 kV AC.

TECHNICAL PARAMETERS

Input Data DC

Input voltage, DC	72-144 V DC (80 V start)
Input current, DC max.	30 A at 110 V DC (at maximum overload)
Input fuse	Yes (internal fuse T50A)
Protections	against polarity reversal, undervoltage, overvoltage, starting current limitation

Input Data AC

Input voltage	230 V AC (in the range 195 - 255 V AC signaled as OK)
Input current	12 A max.
Input fuse	Yes (2x fuse integrated in socket T12.5A)

Output Data AC

Output voltage	230 V AC (sine wave)
Output power	2500 W (3200 VA)
Output power at overload	3000 W/3750 VA max. 20 sec (actively limited)
Output voltage frequency	50 Hz +/- 0,03% (synchronization range 49,5-50,5 Hz)
Output voltage distortion THD	<3.5% (output voltage shape check)
Protection	Short-circuit and overload protection (peak current limitation), against overheating
Switching speed	<15 ms (between AC input and inverter output)

General Data

Efficiency, max.	approx. 93 %
Power losses at a nominal load	approx. 200 W
Electrical strength primary-secondary	4 kV AC primary-secondary; 2 kV AC primary-box, secondary-box
Insulation resistance	more than 20 MΩ
Cooling	forced (fan with speed control)



IP protection
Power consumption no load
MTBF

IP20 (input terminals IP10)
approx. 25 W
1 000 000h according to IEC61709 (SN29500) @ 25 °C

Weight
Material of enclosure
Dimensions
Degree of pollution

6,7 kg
Al + Fe/Zn metal plate
483 x 88 x 250 mm
2

RoHS comply

Yes

Connection data

Number of contacts
Wire cross-section

Input DC HDFK 25	Input AC IEC 320	Output IEC 320	Signalization
3(+,-,PE)	3 (PE, N, L)	3(PE,N,L)	3(NC,COM,NO)
25 mm ²	2,5 mm ²	2,5 mm ²	1,5 mm ²

Signal indication

Operation
Off (Fault)

LED and relay contact (60V DC/1A)
green LED is lit, relay contacts NO, COM connected
green LED not lit, relay contacts NC, COM connected

Environmental conditions

Operating temperature
Relative humidity (non-condensing)
Installation altitude

-10°C to 55 °C
10% to 90 %RH
<2000 m above sea level

The inverter is designed for continuous operation and is resistant to short-circuit at the output.

TECHNICAL STANDARDS

Safety
EMC

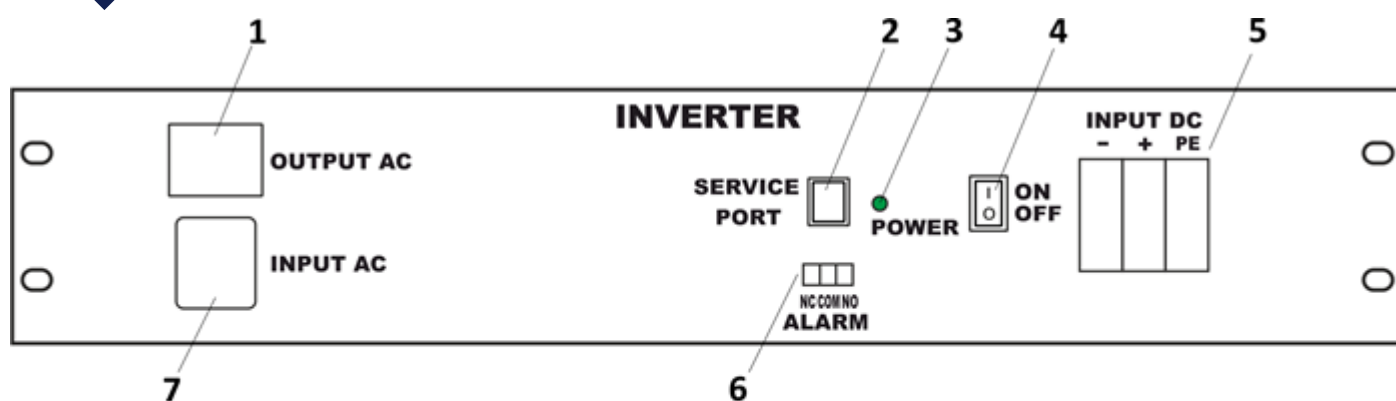
EN 61204-7 ed.2
EN 61000-6-1 ed.2
EN 61000-6-3 ed.2

Limited warranty

2 years

PACKING AND STORAGE

The product is supplied bulk packaged, user's guide for each piece is included.
Storage temperature -20 to 70 °C, relative humidity < 95 % (not condensing). It is prohibited to expose the product to mechanical shocks and injurious gases.



1 - OUTPUT AC (Výstup AC)

2 - SERVICE PORT (Servisní připojení)

3 - POWER LED (Indikace provozu)

4 - ON/OFF SWITCH (Vypínač Zap./Vyp.)

5 - INPUT DC (Vstup DC)

6 - ALARM RELAY (Alarmové relé)

7 - INPUT AC (Vstup AC)