

**SJ-1k5-2k3\_2U2\_4kV\_110V\_BP**



**DESCRIPTION**

DC/AC converter SJ-1K5-2K3\_2U2\_4kV\_110V\_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.	20 A at 110 V DC(at maximum overload)
Input fuse	Yes (internal fuse T30A)
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	1500 W (2000 VA)
Output power at overload	2000 W/2500 VA max. 20 sec (actively limited)
Output voltage frequency	50 Hz +/- 0,03% (synchronization range 49,5-50,5 Hz)
Output voltage distortion THD	<2.5% (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.. 120 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

5,7 kg  
Al + Fe/Zn metal plate  
483 x 88 x 223 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 <sup>2</sup>	2,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>

#### 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

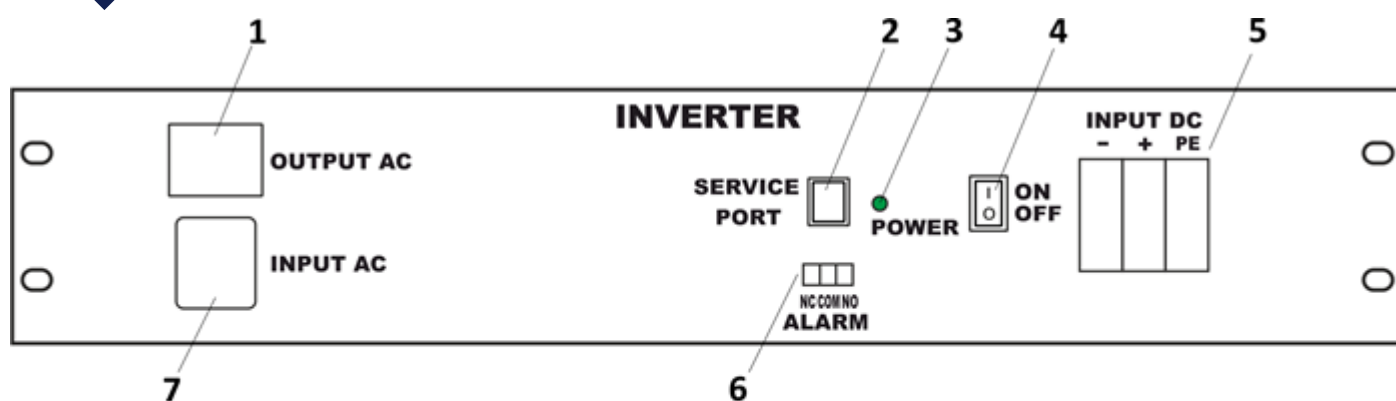
EN 61204-7 ed.2  
EN 61000-6-1 ed.2  
EN 61000-6-3 ed.2

#### 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)