

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



**DESCRIPTION**

DC / AC converter SJ-2K5-2K3\_2U2\_4kV\_110V 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 inverter is placed in a metal box designed for mounting in 19 "cabinets, or on a shelf. Input and output connections are solved using screw terminals. The output circuits are galvanically separated from the input circuits with an electrical strength of 4 kV AC.

**TECHNICAL PARAMETERS**

**Input Data**

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

**Output Data**

Output voltage	230 V AC (sine wave)
Output power	2500 W (3500 VA)
Output power at overload	3000 W/4200 VA max. 20 sec (actively limited)
Output voltage frequency	50 Hz +/- 0,03%
Output voltage distortion THD	<3.5% (output voltage shape check)
Protection	Short-circuit and overload protection (peak current limitation), against overheating

**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	IP20 (input terminals IP10)
Power consumption no load	approx. 25 W
MTBF	1 000 000h according to IEC61709 (SN29500) @ 25 °C

Weight	6,5 kg
Material of enclosure	Al + Fe/Zn painted metal plate
Dimensions	483 x 88 x 250 mm
Degree of pollution	2

RoHS comply

Yes

### Connection data

Number of contacts  
Wire cross-section

**Input**  
**HDFK 25**  
3(+,-,PE)  
25 mm<sup>2</sup>

**Output**  
**HDFK 4**  
3(PE,N,L)  
2,5 mm<sup>2</sup>

**Signalization**  
3(NC,COM,NO)  
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 -10°C to 55 °C  
Relative humidity (non-condensing) 10% to 90 %RH  
Installation altitude <2000 m above sea level

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

### TECHNICAL STANDARDS

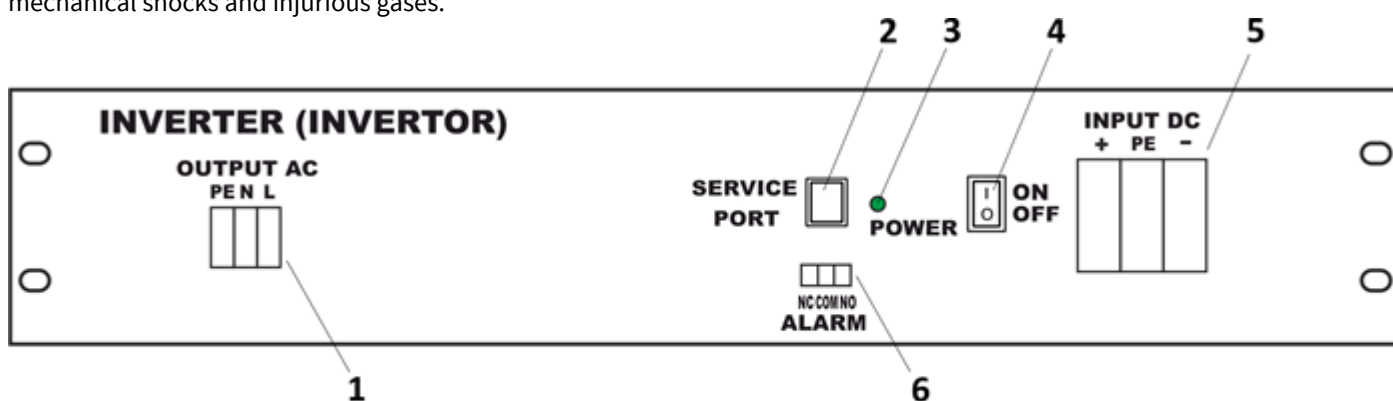
Safety EN 61204-7 ed.2  
EMC EN 61000-6-1 ed.2  
EN 61000-6-3 ed.2

### Limited warranty

**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)