

SJ-1k5-2k3_2U2_4kV_110V



DESCRIPTION

DC/AC converter SJ-1K5-2K3_2U2_4kV_110V is designed to supply electronic devices of control 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, 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 |

Output Data

| | |
|-------------------------------|-------------------------------------------------------------------------------------|
| Output voltage | 230 V AC (sine wave) |
| Output power | 1500 W (2250 VA) |
| Output power at overload | 2000 W/2500 VA max. 20 sec (actively limited) |
| Output voltage frequency | 50 Hz |
| Output voltage distortion THD | <2.5% (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. 120 W |
| Electrical strength primary-secondary | 4 kV AC primary-secondary; 2 kV AC primary-box, secondary-box |
| Insulation resistance | more than 20 M Ω |
| Cooling | forced (fan with speed control) |
| IP protection | IP20 (input terminals IP10) |
| Power consumption no load | approx. 20 W |
| MTBF | 1 000 000h according to IEC61709 (SN29500) @ 25 °C |

| | |
|-----------------------|------------------------|
| Weight | 5,5 kg |
| Material of enclosure | Al + Fe/Zn metal plate |
| Dimensions | 483 x 88 x 223 mm |
| Degree of pollution | 2 |

RoHS comply

Yes

Connection data

| | Input HDFK 25 | Output HDFK 4 | Signalization |
|--------------------|-------------------------|-------------------------|---------------------|
| Number of contacts | 3(+,-,PE) | 3(PE,N,L) | 3(NC,COM,NO) |
| Wire cross-section | 25 mm ² | 2,5 mm ² | 1,5 mm ² |

Signal indication

| | LED and relay contact (60V DC/1A) |
|-------------|-----------------------------------------------------|
| Operation | green LED is lit, relay contacts NO, COM connected |
| Off (Fault) | 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

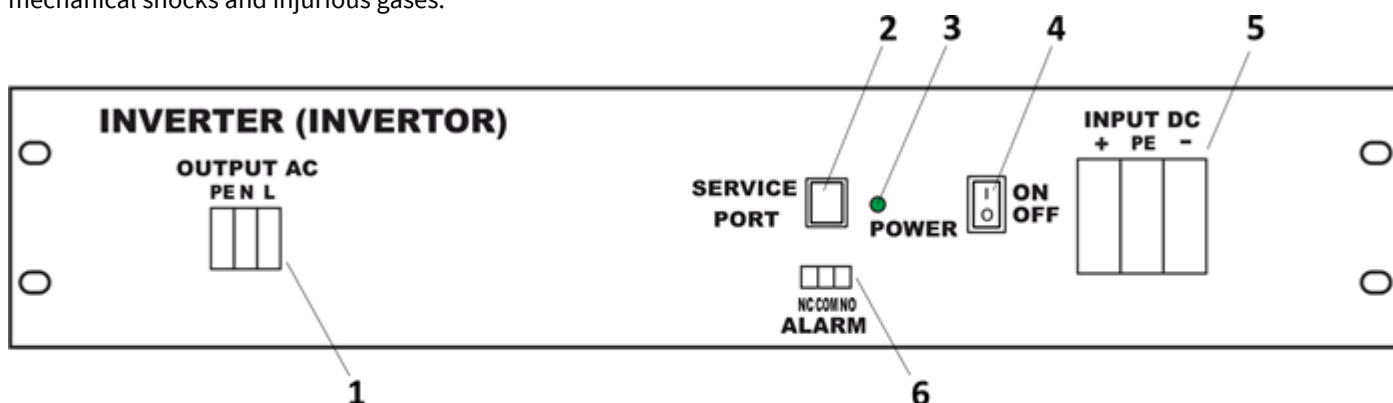
| | |
|--------|----------------------------------------|
| Safety | EN 61204-7 ed.2 |
| EMC | EN 61000-6-1 ed.2 EN 61000-6-3 ed.2 |

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)