SJ-2k5-2k3_2U2_4kV_220V_BP

DESCRIPTION

DC/AC converter SJ-2K5-2K3_2U2_4kV_220V_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	160-290 V DC (170 V start)
Input current, DC max.	15 A at 220 V DC (at maximum overload)
Input fuse	Yes (internal fuse T25A)
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	2800 W/3500 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
Insultation resistance	more than 20 M Ω
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	6,7 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	**Input DC HDFK 25**	**Input AC IEC 320**	**Output AC IEC 320**	**Signalization**
Number of contacts	3(+,-,PE)	3 (PE, N, L)	3(PE,N,L)	3(NC,COM,NO)
Wire cross-section	25 mm^2	2,5 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

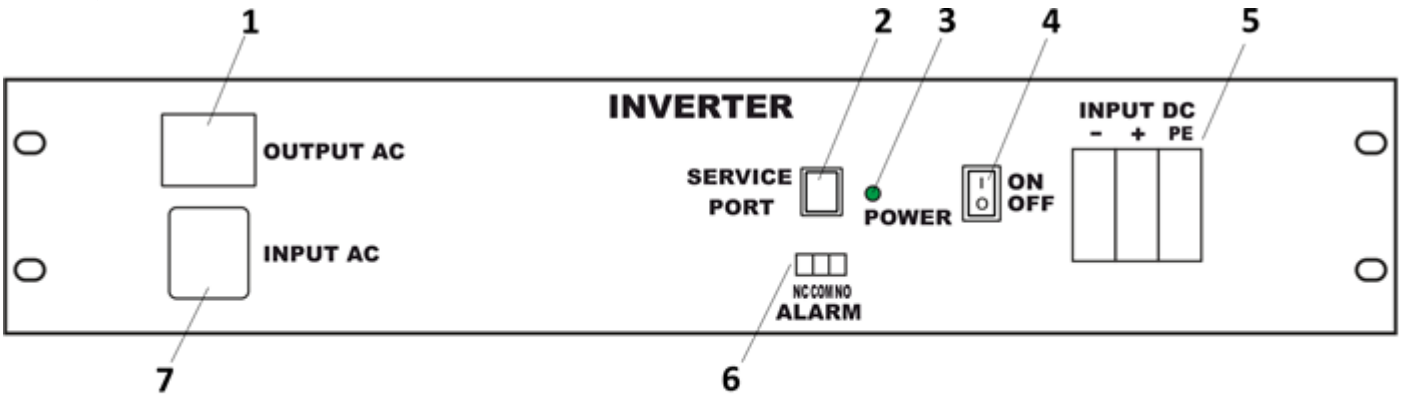
Safety	EN 61204-7 ed.2
EMC	EN 61000-6-1 ed.2
	EN 61000-6-3 ed.2

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.

U výzkumu 603, 664 62 Hrušovany u Brna, **www.bke.cz**



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)