SINUS PRO 7000 S 48/230V (5000W/7000VA)+ 80A MPPT (150V) SOLAR INVERTER

DISCONTINUED

PRODUCT CODE
3SPS700048

EAN
5904100450206

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
SINUS PRO S solar inverters

PRODUCT PAGE
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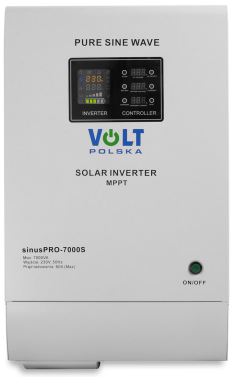

ABOUT THE PRODUCT

SINUS PRO 7000 S 48/230V (5000W/7000VA)+ 80A MPPT (150V) backup power supply SOLAR INVERTER is designed to power devices requiring 230V AC voltage from 48 VDC batteries. The built-in MPPT solar controller enables the use of solar energy to charge the batteries and power the connected load.

The device is equipped with a pure sine wave inverter based on a toroidal transformer, an automatic AVR mains voltage stabiliser and a mains charger. The transformer compensates for the varying reactive power of loads and enables operation with capacitive, inductive and resistive loads, including pumps, compressors, refrigerators, power tools and office equipment.

The inverter can operate in UPS mode, providing virtually uninterrupted power to devices such as blowers, feeders, pumps, central-heating systems and automation systems. The colour graphic display and indicator LEDs show the operating status of the device, including the input and output voltage parameters, battery voltage and charging process.

The device provides protection and alarms against overload, short circuit, excessively high and low voltage, as well as thermal protection. Dedicated VOLT POLSKA DEEP CYCLE AGM or GEL batteries are recommended for operation with the inverter. Car batteries and $LiFePO_4$ batteries must not be used; inverters from the SINUS PRO ULTRA series by VOLT POLSKA are intended for the latter. The selection of components, installation and system configuration should be entrusted to a qualified renewable energy installer.

TECHNICAL SPECIFICATIONS

General Parameters and Operating Modes	**Rated power (continuous)**	5000W
	Total power (momentary)	7000VA
	Battery voltage	48 VDC
	Operating modes (priorities)	PV > AC > BAT | AC > PV > BAT | PV > BAT > AC
	Display	Colour graphic display + indicator LEDs

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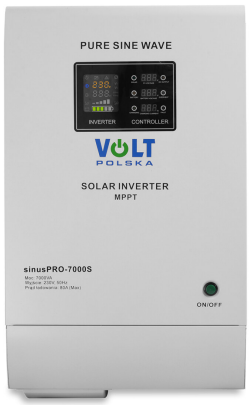
TECHNICAL SPECIFICATIONS - CONTINUED

Solar Parameters (MPPT)	**Built-in solar controller**	MPPT-80A
	Maximum PV panel power	7680W
	Panel voltage range (Voc)	60 VDC ~ 150 VDC
	Maximum battery charging current from PV	80A
	Maximum efficiency (PV)	>98%
Input Parameters (Grid)	**Input voltage range**	170 VAC ~ 270 VAC
	Input frequency	45 - 65 Hz
	Grid charging current	20A
	Input power factor	0,98
	Maximum efficiency (grid)	>96%
	Short-circuit protection / overload	Warning until the load is reduced / YES
Output Parameters (AC - Inverter)	**Output voltage range (grid mode)**	216 VAC ~ 245 VAC
	Output voltage range (inverter mode)	230V ± 3%
	Output frequency	50 Hz ± 0.3Hz
	Output power factor	>0.8
	PV switching time-AC	Typically 4 ms, maximum 6 ms
	Voltage distortion	<3% under load
	Maximum inverter efficiency	>80%
	Overload / Short circuit	110%-150% switches off after 30s, 150%-250% switches off after 15s
Environment and Dimensions	**Operating temperature**	0°C ~ 40°C
	Relative humidity	10% ~ 90% (non-condensing)
	Noise level	<50 dB
	Device dimensions	470 x 392 x 211 mm
	Net weight	32,1 kg
	Individual packaging dimensions	560 x 500 x 310 mm
	Individual package weight	34,9 kg

PRODUCT GALLERY

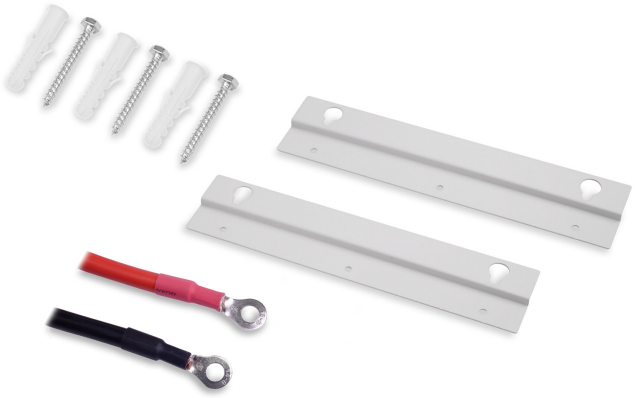








PRODUCT GALLERY - CONTINUED







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