SINUS PRO 2500 S 24/230V (1800/2500W) + 40A MPPT (100V) Solar inverter

LIMITED DISTRIBUTION

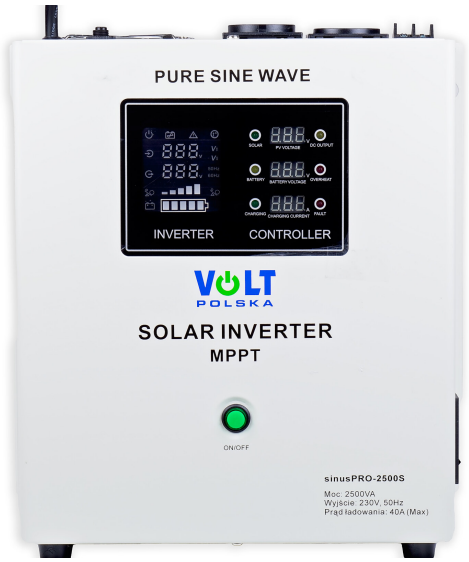
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5904100450510

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
SINUS PRO S solar inverters

PRODUCT PAGE
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ABOUT THE PRODUCT

SINUS PRO 2500 S 24/230V (1800/2500W) + 40A MPPT (100V) is an emergency power supply unit designed to power devices requiring 230V AC voltage from 24 VDC batteries. The built-in MPPT solar controller enables energy from connected photovoltaic panels to be used for charging the batteries and powering the connected load.

The device is equipped with an automatic AVR mains voltage stabiliser, a mains charger and a pure SINE WAVE inverter based on a toroidal transformer. It can operate in UPS mode, ensuring uninterrupted operation of blowers, feeders, pumps, central-heating systems and automation systems, among others. The LCD display shows the most important operating parameters.

The inverter can power household appliances such as refrigerators, microwave ovens, blenders and toasters, office equipment including printers, fax machines, computers and monitors, as well as power tools, pumps and compressors.

For operation with the inverter, only dedicated VOLT POLSKA DEEP CYCLE AGM or GEL batteries designed for cyclic operation are recommended. The use of VOLT POLSKA AGM, OPTI AGM and VPRO AGM batteries designed for standby operation, as well as automotive batteries that are not suitable for operation with inverters, is not recommended.

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TECHNICAL SPECIFICATIONS

Electrical specifications	Total power (instantaneous)	2500 VA
	Continuous power	1800 W
	Input voltage (mains supply)	140 VAC - 275 VAC
	Output voltage (mains supply)	190 VAC - 245 VAC
	Battery operating voltage	24 VDC
	Maximum mains charging current	20 A
	Maximum battery charging current from panels	40 A (built-in MPPT controller)
	Panel voltage (Vmp / Voc range)	30 VDC - 100 VDC (the open-circuit voltage Voc must absolutely not exceed 100 VDC)
	Estimated maximum PV power	approx. 1120 W
	Optimal operating current (Imp)	From approx. 11,2 A (for panels with Vmp close to 100 V) to approx. 37,3 A (for Vmp close to 30 V)
	Short-circuit current (Isc)	Parameter dependent on the PV modules used (as standard, a value 5-10% higher than Imp is assumed; care must be taken to ensure that the total power and Voc do not exceed the limits)
	Distortion	>3% under load
	Frequency	45-65 Hz

TECHNICAL SPECIFICATIONS - CONTINUED

Operating features and construction	**Supported battery types**	Lead-acid- batteries AGM and GEL (suitable for buffer/cyclic operation and deep discharge)
	Not recommended / prohibited batteries	Batteries LiFePO4 (due to a different charging characteristic) and standard automotive starter batteries
	Device functions	DC/AC inverter, UPS uninterruptible power supply, automatic charger, MPPT solar regulator
	Operating modes	PV→AC→BAT, AC→PV→BAT, PV→BAT→AC
	Display	Colour display LED indicating operating status and any errors
	PV-AC switching time	Typically 4 ms, maximum 6 ms
	Maximum efficiency	>80%
	Protection	Overload, short circuit, incorrect mains voltage, low or excessively high battery voltage
	Cooling	Intelligent cooling fan control
	Operating temperature	0°C to 40°C
	Relative humidity	10% - 90% (non-condensing)
	Noise level	<50 dB
Dimensions and logistics	**Dimensions**	405 x 385 x 250 mm
	Net weight	15 kg

PRODUCT GALLERY







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