SINUS PRO ULTRA 6000 24/230V (3000W/6000VA) SOLAR INVERTER + 60A MPPT (145V) OFF-GRID

DISCONTINUED

PRODUCT CODE
3SSH300024

EAN
5904100450756

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
SINUS PRO ULTRA solar inverters (off-grid, island-mode, MPPT, 1F)

PRODUCT PAGE
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ABOUT THE PRODUCT

SINUS PRO ULTRA 6000 is an off-grid solar inverter combining the functions of an inverter, solar charger and battery charger. The device is equipped with a clear LCD display and buttons enabling configuration of operating parameters, including battery charging current, AC or solar charging priority, and input voltage range.

The inverter generates a pure sine wave voltage corresponding to the mains voltage. This enables the device to power RTV and household appliances, office equipment, power tools, pumps and compressors, including inductive devices.

In W off-grid mode, the inverter operates independently of the mains supply. Energy obtained from solar panels is stored in batteries and then supplied to the connected loads. The device is compatible with mains voltage or generator power, and when the power supply AC is restored, it can restart automatically. It is also equipped with a cold-start function and short-circuit, overload and thermal protection.

For cyclic battery charging in photovoltaic systems, batteries designed for this application are recommended, such as gel GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR or lithium LiFePO4 batteries. Select the appropriate battery type and the charging current suitable for its capacity, as incorrect settings may damage the battery and void the warranty. The PC SOLARLIFE software is available at: https://voltpolska.pl/solarmonitor.exe

TECHNICAL SPECIFICATIONS

General Parameters	**Continuous power**	3000W
	Total power (instantaneous)	6000VA
	Output voltage waveform	Pure sine wave
	No-load power consumption	27W
	Maximum efficiency	90% ~ 93% (in inverter mode: 90%)
	Transfer time	10 ms (UPS / VDE4105 mode) / 20 ms (APL mode)

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TECHNICAL SPECIFICATIONS - CONTINUED

Input Parameters (Mains)	**Nominal input voltage**	230 VAC
	Input voltage range selection	170 ~ 280 VAC (UPS) / 90 ~ 280 VAC (APL) / 184 ~ 253 VAC (VDE)
	Input frequency	50 Hz / 60 Hz (Auto)
Output Parameters (AC)	**Output voltage (battery mode)**	220 VAC ~ 240 VAC (230 VAC ± 5%)
Battery and Communication	**Battery system voltage**	24 VDC
	Supported battery types	AGM, Gel, Lead-acid (Flooded), LiFePO4 / Li-ion
	Bulk charging voltage	28,2 VDC
	Float voltage	27,0 VDC
	Overload protection	30 VDC
Solar Parameters (MPPT) and Charging	**Built-in solar controller**	MPPT-60A
	Maximum PV panel power	1500W
	Operating voltage range MPPT (Vmp)	30 ~ 120 VDC
	Maximum PV open-circuit voltage (Voc)	145 VDC
	Maximum safe panel operating current (Imp)	up to 12A – 15A (input limit MPPT)
	Maximum safe panel short-circuit current (Isc)	up to 15A – 18A
	Maximum mains charging current	20A / 30A
	Maximum total charging current (Mains + PV)	80A (default 80A)
General Data and Installation	**Recommended operating temperature**	-10°C ~ 50°C
	Operating humidity	5% ~ 95%
	Device dimensions (D x W x W)	290 x 342 x 118 mm
	Net weight	7,3 kg

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PRODUCT GALLERY









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