SINUS PRO ULTRA PLUS 12000 48/230V (6200W/12000VA) SOLAR INVERTER + 120A MPPT (60–500V) + Wi-Fi + RS485

REGULAR RANGE



PRODUCT CODE
3SSS620048

EAN
5904100453092

CATEGORY
Solar inverters and energy storage systems

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

PRODUCT PAGE
voltpolska.pl/produkty/sinus-pro-ultra-plus-12000-48230v-620...

ABOUT THE PRODUCT

SINUS PRO ULTRA PLUS 12000 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 with buttons enabling configuration of, among other parameters, the battery charging current, AC/solar charging priority and permissible input voltage.

The inverter provides a pure sine wave, a cold-start function, a 120A MPPT solar controller (60–500V), support for UTL, SOL, SBU and SUB output priorities, and the ability to monitor parameters via Wi-Fi. It is compatible with the Ultra 5 energy storage system and is equipped with short-circuit, overload and thermal protection.

The deeply discharged battery wake-up function enables reactivation of a lithium battery using an activation pulse lasting from 6 to 300 seconds. The EQ function is used to equalise the voltage between cells, optimise performance and extend the service life of lead-acid batteries with liquid electrolyte.

The device can power, among other things, consumer electronics and household appliances, office equipment, power tools, pumps and compressors. In W photovoltaic installations, the use of batteries designed for cyclic operation is recommended, such as gel GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR or lithium LiFePO4 batteries, with an appropriately selected battery type and charging current.

Since May 2026, SINUS PRO ULTRA PLUS 12000 has featured a dual AC output (Dual AC Output) for intelligent priority power supply.

TECHNICAL SPECIFICATIONS

Voltage	48VDC
No-load power consumption	30-60 W

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GENERATED: 2026-10-30 15:05

TECHNICAL SPECIFICATIONS - CONTINUED

Inverter output	**Maximum instantaneous power**	12400VA
	Maximum continuous power	6200VA / 6200W
	Output voltage range (battery mode)	220VAC-230VAC+-5%
	Transfer time	10ms (Home computers); 20ms (Household appliances)
Input mains	**Voltage**	230VAC
	Input voltage range selection	170-280VAC (Home computers); 90-280VAC (Household appliances)
	Maximum mains charging current	120A
	Frequency range	50Hz / 60Hz
Battery	**Battery voltage**	48VDC
	Float voltage	54VDC
	Overload protection	63VDC
Solar panel	**Controller operating range MPPT**	60VDC-500VDC (start-up voltage: 70 VDC)
	Maximum PV panel open-circuit voltage (Voc)	500VDC
	Maximum PV input current (Imp)	27A
	Maximum battery charging current from PV panels	120A
Dimensions/Weight	**Device dimensions**	438 x 328 x 120 mm+-5%
	Device weight	7,9 kg+-5%
	Individual packaging dimensions	550 x 408 x 195 mm+-5%
	Individual package weight	9,2 kg +-5%
Other	**Humidity**	5% to 95%
	Operating temperature	-10°C-50°C
	Storage temperature	-15°C-60°C
	Ingress protection rating	IP21

PRODUCT GALLERY





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