



SINUS PRO ULTRA-M 6500 24/230V (3000W/6500VA) SOLAR INVERTER + 60A MPPT (160V) OFF-GRID

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SINUS PRO ULTRA solar inverters (off-grid, standalone, MPPT, 1F)PRODUCT PAGE
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ABOUT THE PRODUCT

Summary based on the description published on the product page.

SINUS PRO ULTRA-M 6500 24/230V (3000W/6500VA) SOLAR INVERTER + 60A MPPT (160V) OFF-GRID is a device combining the functions of an inverter, solar charger and battery charger. It operates in off-grid mode, independently of the power grid, storing energy from solar panels in batteries and supplying it to the connected load. It is equipped with a LCD display and buttons enabling configuration of, among other things, the battery charging current, the AC/solar charging priority and the input voltage range.

The inverter provides a continuous power rating of 3000W and peak power of 6500VA, and generates a pure sine-wave output voltage. It supports a 24 VDC battery system voltage and AGM, gel (Gel), lead-acid (Flooded) and lithium-ion batteries, including LiFePO4. Communication with BMS energy storage systems is via the CAN / RS485 port.

The device is compatible with mains voltage or generator power, offers automatic restart after AC power is restored and a cold-start function. Short-circuit, overload and thermal protection are provided. The transfer time is 10 ms in UPS / VDE4105 mode and 20 ms in APL mode. Maximum efficiency is 90% ~ 93%, and no-load power consumption is 28W.

SINUS PRO ULTRA-M 6500 can supply, among other things, consumer electronics, household appliances, office equipment, power tools, pumps and compressors. PC SolarLife software, available at <https://voltpolska.pl/solarmonitor.exe>, is used to monitor operation via a computer.

TECHNICAL SPECIFICATIONS

General Parameters	Continuous power	3000W
	Total power (peak)	6500VA
	Output voltage waveform	Pure sine wave
	No-load power consumption	28W
	Maximum efficiency	90% ~ 93%
	Transfer time	10 ms (UPS / VDE4105 mode) / 20 ms (APL mode)
Input Parameters (Mains)	Nominal input voltage	230 VAC
	Input voltage range selection	170 ~ 280 VAC (UPS) / 90 ~ 280 VAC (APL)
Output Parameters (AC)	Output voltage (battery mode)	220 VAC ~ 240 VAC (230 VAC ± 5%)



TECHNICAL SPECIFICATIONS - CONTINUED

Battery and Communication	Battery system voltage	24 VDC
	Supported battery types	AGM, Gel, Flooded lead-acid, Lithium-ion (including -- LiFePO4)
	Communication with energy storage systems (BMS)	Yes (supported via CAN port / RS485)
Solar Parameters (MPPT) and Charging	Built-in solar controller	MPPT-60A
	Maximum PV panel power	1600W
	Operating voltage range MPPT (Vmp)	30 ~ 128 VDC
	Maximum PV open-circuit voltage (VOC)	160 VDC
	Maximum safe short-circuit current (Isc) of the panels	22A
	Maximum safe operating current (Imp)	25 A
	Maximum battery charging current from PV panels	60A
	Maximum charging current from the grid	60A
General Data and Installation	Maximum total charging current (Grid + PV)	120A
	Recommended operating temperature	0°C ~ 40°C
	Device dimensions (D x W x W)	367,4 x 254,5 x 103,1 mm
	Net weight	5,6 kg
	Individual package dimensions	435,5 x 330,5 x 179 mm
	Unit packaging weight	6,6 kg

PRODUCT GALLERY





PRODUCT GALLERY - CONTINUED

