ULTRA HYBRID PRO 8K 48V/230V-400V 3-PHASE (8000W) HYBRID INVERTER + 2 X MPPT (200-650V) + Wi-Fi

REGULAR RANGE

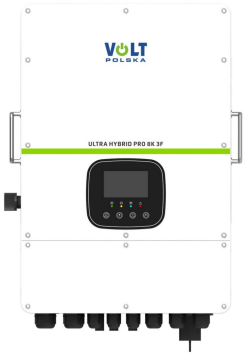
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3SSHZ9083F

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5904100452316

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
SINUS PRO ULTRA HYBRID solar inverters (hybrid, MPPT, 1F, 3F)

PRODUCT PAGE
voltpolska.pl/produkty/inwerter-hybrydowy-ultra-hybrid-pro-8...



ABOUT THE PRODUCT

ULTRA HYBRID PRO 8K 48V/230V-400V 3-PHASE (8000W) HYBRID INVERTER + 2 X MPPT (200-650V) + Wi-Fi combines on-grid and off-grid inverter functions. It enables supplying devices from a photovoltaic installation, storing energy in batteries, and operating independently of the power grid. In W on-grid mode, it converts DC energy from the panels into AC, and excess energy can be fed into the grid. In W off-grid mode, energy from the panels is stored in batteries and supplied to connected loads.

The device is compatible with the Ultra 5 energy storage system, a BMS, and a 3-phase generator with an automatic start option provided by the built-in relay. It offers 5 operating modes: Store Mode, Load First Mode, Battery First Mode, Grid First Mode, and Advanced Mode. Up to three inverters can operate in parallel, and the device can work with other inverters connected to the building installation.

Parameter configuration is enabled by the LCD touchscreen display. Computer software is available via USB, while the Wi-Fi module provides monitoring and remote control of operating parameters. W Depending on the production series, the device is equipped with a module using the Smart Value or PV Pro application. The inverter features short-circuit, overload, and temperature protection.

For operation in photovoltaic installations, batteries designed for cyclic charging are recommended, including gel GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR, or lithium LiFePO4 batteries. The correct battery type and charging current must be selected according to its capacity, as incorrect settings may damage the battery and void the warranty.

TECHNICAL SPECIFICATIONS

Inverter output (AC)	**Continuous power**	8000 W
	Grid connection	3-phase
	Output voltage range	230/400V (3L/N/PE)
	Frequency range	50Hz / 60Hz
	Maximum output current	12.8 A / 13.3 A
	Output voltage waveform	Pure sine wave (sine-wave inverter)
PV input (DC)	**Maximum input power of each PV (PV1/PV2) / Maximum panel power**	10400 W (5200 W / 5200 W)
	Maximum voltage (Voc - open-circuit voltage, no load)	800 V
	Nominal voltage	550 V
	Start-up voltage	160 V
	MPPT voltage range (panel operating Vmp)	200 V - 650 V
	Number of MPPT circuits	2
	Number of strings per MPPT input	2+1
	Maximum input current (Imp - optimum current at the maximum power point)	15 A / 15 A
	Maximum PV short-circuit current (Isc - short-circuit current)	18.75 A / 18.75 A
Battery	**Battery type**	Lead-acid - Lithium /
	Voltage	48 V
	Battery voltage range	40 V - 60 V
	Maximum charging current	190 A
	Maximum discharging current	190 A
Efficiency	**Maximum efficiency**	97.60%
	European efficiency	97.00%
	Efficiency MPPT	> 99%

TECHNICAL SPECIFICATIONS - CONTINUED

Other parameters and operating environment	**Protection**	Overload, short-circuit and temperature protection
	Communication with BMS	RS485; CAN
	Operating temperature	-25°C ~ 60°C (power reduction above 45°C)
	Cooling	Intelligent air cooling (fans)
	IP rating	IP66
	Noise level	≤55 dB
	Dimensions (H x W x D)	687 x 446 x 285 mm
	Weight	~44.5 kg

PRODUCT GALLERY





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PRODUCT GALLERY - CONTINUED





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