ULTRA HYBRID PRO 12K 48V/230V-400V 3-PHASE (12000W) HYBRID INVERTER + 2 X MPPT (200-650V) + Wi-Fi

REGULAR RANGE

PRODUCT CODE
3SSHZ9123F

EAN
5904100452279

CATEGORY
Solar inverters and energy storage systems

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

PRODUCT PAGE
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ABOUT THE PRODUCT

Summary based on the description published on the product page.

ULTRA HYBRID PRO 12K 48V/230V-400V 3-PHASE (12000W) HYBRID INVERTER + 2 X MPPT (200-650V) + Wi-Fi, index 3SSHZ9123F, combines the functions of an on-grid and off-grid inverter. It provides 3-phase power with continuous power of up to 12000 W in island operation, with an output of 230/400V (3L/N/PE), a maximum output current of 19.1 A / 20 A, and a pure sine-wave voltage waveform.

The device is equipped with 2 MPPT circuits, a voltage range of MPPT 200 V - 650 V, a maximum Voc voltage of 800 V, a nominal voltage of 550 V, a start-up voltage of 200 V, and a maximum panel power of 24000 W (older models: 15600 W). The inverter supports a frequency of 50Hz / 60Hz and is compatible with the Ultra 5 energy storage system and the BMS.

Parameter configuration is performed using the LCD touchscreen display. The device offers 5 operating modes: Store Mode, Load First Mode, Battery First Mode, Grid First Mode and Advanced Mode. It can operate with a 3-phase generator, with an autostart option via the built-in relay, and can operate in parallel with up to three inverters.

The inverter has short-circuit, overload and temperature protection. It can be operated via a computer using USB and enables remote viewing and control of parameters via the Wi-Fi module. WDepending on the production series, either the basic variant with the Smart Value application or the E-Linter variant with the PV Pro application is used. The modules provide a view of the inverter operating parameters and remote monitoring on mobile devices.

TECHNICAL SPECIFICATIONS

INVERTER OUTPUT (AC)	**Continuous power**	12000 W
	Grid connection	3-phase
	Output voltage range	230/400V (3L/N/PE)
	Frequency range	50Hz / 60Hz
	Maximum output current	19.1 A / 20 A
	Voltage waveform	Pure sine wave (sine-wave inverter)

TECHNICAL SPECIFICATIONS - CONTINUED

PV INPUT (DC)	**Maximum panel power**	24000 W (Older models: 15600 W)
	Maximum voltage (Voc)	800 V
	Nominal voltage	550 V
	Start-up voltage	200 V (Older models: 160 V)
	Voltage range MPPT (operating Vmp)	200 V - 650 V
	Number of MPPT circuits	2
	Number of MPPT strings	2+1
	Maximum input current (Imp)	36 A / 20 A (Transitional version: 30 A / 15 A; Oldest: 26 A / 13 A)
	Maximum short-circuit current (Isc)	54 A / 30 A
BATTERY	**Battery type**	Lead--acid / Lithium
	Voltage	48 V
	Battery voltage range	40 V - 60 V
	Maximum charging current	240 A
	Maximum discharge current	240 A
EFFICIENCY	**Maximum efficiency**	97,60% (Older models: 97,10%)
	European efficiency	97,00%
	MPPT efficiency	> 99%
OTHER PARAMETERS AND ENVIRONMENT	**Protection**	Overload, short-circuit, and temperature protection (Older models: no temperature annotation)
	Interface	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	687 x 446 x 285 mm
	Weight	~44,5 kg

PRODUCT GALLERY







