

Hybrid inverter Solis 5 kW three phase, dual MPPT, 97,7% efficiency



Product code: F4SOL-RHI-3P5K-HVES-5G
Brand: Array
Category: Solar power plants > Photovoltaic inverters

PRICE : €1,640.76

About the product

Manufacturer:
Country of origin:
Height, mm: 455
Width, mm: 535
Depth, mm: 181
Efficiency: 97.7
Electr. power (W) to: 5000
Item type:
Warranty, year: 5

Description

Characteristics:

3 working modes and programmable energy management
Automatic switching of the power source within 40 ms
Backup provided power up to 5 kW
Intelligent energy management, real-time monitoring of PV systems operation
Several levels of protection

Technical characteristics:

Input current, DC (on PV side)
Recommended maximum PV power: 8 kW
Maximum input voltage: 1000 V
Nominal voltage: 600 V
Starting voltage: 160 V
MPPT ring voltage range: 200-850 V
Maximum input current: 13 A / 13 A
Max. short circuit current: 19,5 A / 19,5 A
Number of MPPT / Max. number of inputs: 2/2

Battery

Battery type: Lithium-ion
Battery voltage range: 160 - 600 V
Battery capacity: 50 - 2000 Ah
Max. charge/discharge power: 5 kW
Max. charge/discharge current: 25A
Information transmission: CAN/RS485

Output current, AC (Mains side)

Nominal output power: 5 kW
Maximum apparent output power: 5 kVA
Operating Phase: 3/N/PE
Nominal mains voltage: 380 V / 400 V
Nominal mains frequency: 50 Hz / 60 Hz
Nominal mains output current: 7,6 A / 7,2 A
Maximum output current: 8,4 A
Power factor: >0.99 (adjustable from 0.8 to 0.8 lag)
THDi: < 2 %

Output current, AC ("Back-up")

Nominal output power: 5 kW
Maximum apparent output power: 5 kVA
Peak apparent output power: 10 kVA, 60 sek.
Back-up switching time: < 40 ms
Nominal mains voltage: 3/N/PE, 380 V / 400 V
Nominal mains frequency: 50 Hz / 60 Hz
Nominal mains output current: 7,6 A / 7,2 A
Maximum output current: 8,4 A
THDv (line load): < 2 %

Efficiency

EU efficiency: 97,7 %
MPPT efficiency: 99,9 %
Battery charge/discharge efficiency: 97,5 %

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Anti-Islanding Protection: Yes
Output overcurrent protection: Yes
Short circuit protection: Yes
DC breaker: Yes
DC polarity reversal protection: Yes
PV surge protection: Yes
Battery reverse protection: Yes

General data

Topology: Without transformers

Power consumption of the system: < 7 W
The working ambient temperature of the system: -25~ +60 °C
Operating humidity range of the system: 0 - 100%
Protection class: IP65
Cooling: Natural convection
Maximum working altitude: 4000 m
DC connector: MC4
AC connector: Quick connect connector
Screen: LCD
Information transmission: RS485; WiFi/GPRS (additional function)