5KW SINGLE PHASE HYBRID INVERTER

FEATURES

- Max. efficiency 97.6% with ultra-low start-up voltage

- Fast and dynamic Dual MPPT and industry-leading DC voltage range

- Intelligent EMS function can use solar power 24/7 and lower you energy bills

- Off-grid backup function in less than 200ms

- 7 years standard warranty with extension options to 15 years.

- IP65 protection

Product parameters

Input(DC)

Max PV Power(wp)	6600
Max DC input voltage [V]	550
Rated DC voltage [V]	380
Max input Current [A]	12/12
Max short current [A]	14/14
Start-up voltage [V]	100
Number of MPPTs/ Number of Strings per MPPT	2(1/1)

Output（AC）

Rated output power [VA]	5000
Max AC power [VA]	5000
Rated grid voltage [v]	220/230/240(180-270)
Rated grid frequency [Hz]	50/60
Rated AC Current [A]	21.7
Max AC Current [A]	21.7
Power Factor	0.8 leading~0.8 lagging
THDi[%]	<2

Input (AC)

Max AC Power [VA]	10000
Max AC Current[A]	43.4

Battery

voltage range [V]	85-400
Rated voltage [V]	300
Max. Continuous Charge/Discharge Current [A]	25
Communication	CAN/ RS485
Electronic protection	YES

EPS output (with battery)

EPS Rated Max. Continuous Power[VA]	5000
EPS Rated voltage [V], Frequency [Hz]	230, 50/60
EPS Max continuous current[A]	21.7
EPS peak power rating [VA]	6000
Transfer Time [ms]	<200
THDi [%]	<2

Efficiency

PV Max. efficiency	97.6%
PV Europe Efficiency	97%
PV Max. MPPT efficiency	99%
Max. Charging efficiency (PV to BAT)	98.2%
Max. Charging Efficiency(Grid to BAT)	97.4%
Max. Discharging Efficiency(BAT to Grid)	97.5%

Protection

Over-voltage protection/Low-voltage protection	YES
Ground fault monitoring	YES
Grid monitoring	YES

Standard and Certification

Safety	IEC62109-1/2
EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3
Grid Regulation	VDE-AR-N 4105 / AS4777 / EN50549 / CEI 0-21

Power Consumption

Night Power Consumption [W]	<10

Environmental Limit

IP Protection	IP65
Operating Temperature Range [°C]	-20~60 (derating +45)
Altitude (m) [m]	<2000
Humidity [%]	0~100 (RH)
Storage temperature (°C)	-20~+60
NI[dB]	<30

General Data

Dimensions (W*H*D) [mm]	411*505*192
Weight [kg]	18
Cooling Method	Natural Convection
Topology	Transformerless
Communication	Ethernet/ Meter/ Pocket WiFi (optional) / Pocket LAN (optional) / Pocket GPRS (optional) / DRM/ USB/ ISO alarm/ CT
Warranty [year]	5-10

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** Under specific test conditions