



Product HIGHLIGHT



Efficient & Energy-Saving: 2x DC overload capacity and 1.1x AC overload, with battery charge/discharge efficiency up to 97.5%; built-in shade tracking maximizes power generation.



Cost-Effective: Each string supports 16A DC input with up to 1.5x rated power input; stores surplus solar energy and lowers startup voltage to extend generation time and reduce transmission loss.



Smart & Safe: On/off-grid switching in under 10ms, compatible with LFP and lead-acid batteries; supports smart load control and parallel expansion, with IP65 protection and built-in surge protection.



Hybrid Inverter

Solar / Hybrid Inverter - EU/CA

The series products provide hybrid inverter for home use and pure solar inverter for commercial or industrial needs.

To use green energy for solar power, the solar inverter is a critical equipment in solar power system. It can convert the direct current generated by solar modules into alternating current for daily power use. If we use our energy storage with inverter, it can storage extra solar power for night use or heavy power needs.

Hybrid Inverter



Series	10 kWp	12 kWp	16 kWp	20 kWp	24 kWp	30 kWp
PV Input						
Max. recommended PV array power	10 kWp	12 kWp	16 kWp	20 kWp	24 kWp	30 kWp
Max. PV input voltage	1000 V					
Rated PV input voltage	640 V					
MPPT voltage range	180 ~ 950 V					
Start-up voltage	200 V					
No. of MPP trackers / strings per MPP tracker	2 (1 / 1)		2 (1 / 1)			
Max. input current per MPPT	16 A / 16 A		28 A / 16 A			
Max. input short circuit current per MPPT	20 A / 20 A		35 A / 20 A			
AC Input & Output (on grid)						
Rated output power	5 kW	6 kW	8 kW	10 kW	12 kW	15 kW
Rated output current	7.2 A	8.7 A	11.6 A	14.5 A	17.5 A	21.8 A
Max. output apparent power	5.5 kVA	6.6 kVA	8.8 kVA	11.0 kVA	13.2 kVA	15.0 kVA
Max. output continuous current	8.1 A	9.7 A	12.9 A	16.1 A	19.3 A	24.1 A
Rated AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V					
Max. AC input apparent power	10 kVA	12 kVA	16 kVA	20 kVA	20 kVA	20 kVA
Max. AC input current	16.1 A	19.3 A	25.8 A	32.0 A	32.0 A	32.0 A
Rated AC frequency	50 Hz / 60 Hz					
Adjustable power factor range	~ 1 (0.8 lagging to 0.8 leading)					
THDi (rated power)	< 3%					
Battery						
Battery type	Lithium / Lead-acid					
Battery voltage range	120 ~ 800 V					
Max. charge / discharge current	30 A					
EPS (off grid) Output (with battery)						
Rated EPS output power	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA	15 kVA
Peak EPS output power	12.0 kVA, 10 s	12.0 kVA, 10 s	18.0 kVA, 10 s	18.0 kVA, 10 s	22.5 kVA, 10 s	22.5 kVA, 10 s
Switchover time	< 10 ms					

Hybrid Inverter



Series	10 kWp	12 kWp	16 kWp	20 kWp	24 kWp	30 kWp
Efficiency						
Max. efficiency	98.0%					
European efficiency	97.7%					
Environment Limit						
Ingress protection	IP65					
Operation temperature	-35 ~ 60°C (> 45°C derating)					
Operation altitude	≤ 3000 m					
Relative humidity	4 ~ 100% RH (condensing)					
Overvoltage category	Mains: III, Battery: II, PV: II					
General Infomation						
Dimensions (W × H × D)	503 × 503 × 199 mm					
Weight	30 ± 1 kg					
Cooling	Natural cooling				Smart air cooling	
Communication interfaces	CT / Meter (optional), External control RS485, Pocket WiFi (Optional: Pocket LAN/4G), DRM, NTC (optional)					
Power consumption (night)	< 40 W for standby, < 5 W for idle					
Topology	Certifications					
Certifications	EN/IEC62109-1/-2, VDE4105, G99, G98, AS4777, EN50549, CEI 0-21, IEC61727, PEA/MEA, NRS-097-2-1, RD1699, TOR					
Protection						
Protections	DC reverse-polarity protection, DC isolation protection, Residual current detection, AC overcurrent protection, AC short-circuit protection, Over / under voltage protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, Over temperature protection					
Active anti-islanding method	Frequency shift					
Surge protection	DC: Type II, AC: Type II					
Arc-fault circuit interrupter (AFCI)	Optional					

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