



Inline 6KW-ECO

Hybrid Solar Inverter



Excellent Performance

- 200% usable PV power, up to 12 kW PV input.
- Max. 20A+20A PV input current with 2 MPPTs.
- Max battery charge/discharge current of 140A.
- Max. grid passthrough current of 41A.



Highly Flexible

- Support 40-60V Lithium or Lead-acid battery.
- Support generator/smart load/AC coupling.
- Max. 9 units parallel for on-grid and off-grid operation.
- 3 inverters in parallel for three phase.



Safe & Reliable

- IP66: Indoor or outdoor installation.
- Seamless transition to backup mode, for protection against power outages.
- Compact and lightweight, easy to transport and space-saving.



Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate.
- 6 time periods for battery charging/discharging.
- Built-in WiFi, supporting remote monitoring and upgrade.

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Efficiency	
Max. Efficiency	97.3%
Input (PV)	
Max. PV Usable Power	12,000W
Max. PV Input Voltage	500V
Start-up Voltage	90V
MPPT Voltage Range	70V-450V
Max. Input Current per MPPT	20A/20A
Max. Short Circuit Current per MPPT	25A/25A
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1/1
Input/Output (BAT)	
Battery Type	Lithium-ion/Lead-acid
Nominal Battery Voltage	48V
Battery Voltage Range	40V-60V
Max. Charge/Discharge Current	140A/140A
Max. Charge/Discharge Power	6,600W/6,600W
Input/Output (Grid)	
Nominal AC Output Power	6,000W
Max. AC Output Apparent Power	6,600VA
Nominal AC Output Current	27.3A/26.1A/25.0A
Max. Grid Passthrough Current (grid to load)	41A
Nominal Voltage	220V/230V/240V, L+N+PE
Nominal Frequency	50Hz/60Hz
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
THDI	< 3% @ R Load
Output (Back up)	
Nominal AC Output Power	6,000W
Max. AC Output Apparent Power	6,600VA
Nominal AC Output Current	27.3A/26.1A/25.0A
Peak Output Apparent Power	200% @10s
Nominal Voltage	220V/230V/240V, L+N+PE
Nominal Frequency	50Hz/60Hz
Transfer Time	< 10ms (Typical)
THDV	< 3% @ R Load
Protection	
Protection Category	Class I
PV Switch	Yes
Anti-islanding Protection	Yes
Overcurrent Protection	Yes
Overvoltage Protection	Yes
AC Short Circuit Protection	Yes
PV Reverse Polarity Protection	Yes
Surge Protection	Type III
General	
Max. Operation Altitude	4,000m (>2,000m derating)
Operating Temperature Range	-25°C~60°C
Relative Humidity	0~100%
Ingress Protection Degree	IP66
Cooling Method	Smart Cooling
Mounting	Wall Bracket
Dimensions (W*H*D)	367mm*421mm*215mm
Weight	11.5 kg
HMI & COM	
Display	LED+LCD
Communication Interfaces	RS485/CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, Wi-Fi, LAN (Optional)
Certification	
Safety	IEC/EN 62109-1/2
EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62920
Warranty	5 Years

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.