Hybrid Inverter

REVO

Ion 3 - 6 KW

Application: Residential Use

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-gird and off-gird 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



SINGLE PHASE & LV BATTERY

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Efficiency				
Max. Efficiency	97.3%			
Input (PV)				
Max. PV Usable Power	6,000W	7,200W	10,000W	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	75A/75A	75A/75A	110A/110A	140A/140A
Max. Charge/Discharge Power	4,000W/4,000W	4,000W/4,000W	5,500W/5,500W	6,600W/6,600W
Input/Output (Grid)				
Nominal AC Output Power	3,000W	3,600W	5,000W	6,000W
Max. AC Output Apparent Power	3,300VA	3,960VA	5,500VA	6,600VA
Nominal AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	22.7A/21.7A/20.8A	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	3,000W	3,600W	5,000W	6,000W
Max. AC Output Apparent Power	3,300VA	3,960VA	5,500VA	6,600VA
Nominal AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	22.7A/21.7A/20.8A	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	Optional			
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.