

Single phase solar hybrid inverter 6kW; Battery voltage: 48V, IP65, silicon carbide



SiC Technology
Max.Efficiency 98%



Support 6 Units in
Parallel (Off-grid Mode)



150-200% PV Input Power
PV Input Current 18A



Natural Cooling
(Noise <25dB)



<10ms On/Off-grid
Switchover



Support Setting of 6 Charging/
Discharging Time Period



Without LCD/LED Display
Design, Higher Reliability



Support AC Couple



Self-owned APP,
Support Adding New Language

Specification

p.n.	432001	432002
Off-grid Output		
Rated Output Power	5000W	6000W
Rated Voltage	220V/230V/240V	
Rated Frequency	50/60Hz	
Rated Output Current	22.7A	27.2A
Output THDu	<2%	
Peak Power & Duration	120%(10s)*	
On-grid Parameter		
Rated Output Power	5000W	6000W
Max. Output Current	22.7A	27.2A
Rated Grid Voltage	220V/230V/240V	
Max. Input Current from Grid	27.2A	
Grid Voltage Range	184-276V	
Frequency Range	45-65Hz	
PV Input		
Max. Input Power	8000Wp	9000Wp
Starting Voltage	95V	
Max. Input Voltage	600V	
MPPT Voltage Range	80-500V	
Number of MPPT	2	
Max. Input String Per MPPT	1	
Rated Input Voltage	360V	
Max. Input Current	18A/18A	
Battery Parameter		
Battery Type	Lithium-ion/Lead-Acid (optional)	
Rated Battery Voltage	51.2V	
Battery Voltage Range	42-58V	
Max. Charging Voltage	≤60V	
Battery Charging/Discharging Current	100A	
Efficiency		
Max. Efficiency	98.0%	
European Efficiency	97.5%	
Max. Battery Charging/Discharging Efficiency	95.2%	
General Data		
Size(W*H*D)	500mm*470mm*180mm	
Weight	21kg	
Noise	<25dB	
Operating Temperature	-25°C ~ +60°C (>45°C Derating)	
Operational Altitude	4000m (>3000m Derating)	
Cooling Method	Natural Cooling	
Ingress Protection Grade	IP65	
Monitoring	LED/WIFI/4G/Bluetooth/RS485	
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port	
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection; AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection: LEVEL II; Reverse Polarity Protection (PV& Battery); Lightning Protection	
Certification		
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62477-1	
CE-EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62920	
Grid	VDE-AR-N 4105, C10-11, G98/G99, CEI 0-21, EN50549, NRS 097-2-1, R25, UNE217001, UNE217002, NTS 2.1, PEA, MEA, NC RfG	

*Overload output is dependent on sufficient PV and battery energy