Hybrid Inverter
Single-phase
Guard Series

6kw/7kw/8kw



Color Touch Screen
IP66

Up to 180A
Charging/Discharging
Current

Supports Energy Storage
from Diesel Generators

200% PV Input;
Maximizing Solar Energy
Utilization

Technical Parameter

Product Models	Guard 6kw	Guard 7kw	Guard 8kw
Battery Input Parameters			
Battery Type	Lithium or Lead-acid Battery		
Battery Voltage Range (V)	40~60		
Rated Battery Voltage (V)	48		
Maximum Charging Current (A)	140	140	180
Maximum Discharge Current (A)	140	140	180
Charging Strategy Of Lithium Battery	Self-adaptive Battery Management System		
PV Input Parameters			
Maximum Dc Input Power (W)	13200W	13200W	13200W
Maximum Dc Input Voltage (V)	500V		
Starting Voltage (V)	125V		
Maximum Input Current (A)	20A/20A		
Number Of Mppt Paths	2/1+1		
AC Input/output Parameters			
Rated Output Power (W)	6600	7260	8000
Maximum Input/output Power (Va)	7260	7260	8000
Peak Output Power (W)	>200%,15sec		
Rated Input/output Current (A)	30/28.7	32.7/31.3	36.4/34.8
Maximum Input/output Current (A)	33/33	33/33	36.4/36.4
Line Voltage (V)	220V/230 0.85Un-1.1Un		
Power Grid Connection Form	L+N+PE		
Frequency (Hz)	50/60		
Power Factor	1(0.8 leading - 0.8 lagging)		
Total Harmonic Thdi	<3% (of nominal power)		
Efficiency			
Maximum Efficiency	97.6%		
European Efficiency	97%		
Equipment Protection			
Integrated	DC Reverse Polarity, AC Output Overcurrent, Over-temperature, AC Output Overvoltage, Short Circuit, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI, optional), Anti-islanding Protection, DC Switch, Insulation Resistance Detection, Residual Current Detection		
Protection Category	Class I		
Interface			
Communication Interface	RS485/CAN		
Monitoring Mode	GPRS / WiFi / Bluetooth / 4G / LAN (optional)		
Basic Parameters			
Operating Temperature (℃)	-40℃~+60℃(derating above 45° C)		
Altitude (m)	3000m		
Cooling Method	Intelligent Forced Air Cooling		
Noise (dB)	<45dB		
Weight (Kg)	13kg		
Dimensions (W × H × D mm)	338*480*205mm		
IP Rating	IP66		
Topological Structure	High-frequency Isolation (Battery Side)		
Safety Regulations /emc Certification	IEC62109, IEC61000, IS16169 & IS16221(BIS)		
Grid Connection Certification	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinace No.140		
Other Certifications	IEC61683, IEC62116, EN50530, IEC60068		

Product specifications are subject to change without notice.