Single Phase Hybrid Inverter

Cer-3/4.4G1-LE

Product Features

- Charging and discharging current up to 168A
- 5 ms fast switching time
- Adaptive speed adjustment fan
- Super strong inductive load capacity
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- IP65 protection degree long lifespan

Technical Data

Model	Cer-3G1-LE	Cer-4.4G1-LE
Battery Input		
Battery Type	Lead acid or Li-ion	
Battery Voltage(V)	24(20-30)	
Battery Charge/Discharge Current(A)	110	168
Charging Strategy for Li-Ion	Self-Adaption to BMS	
PV Input		
Max.PV Input Power(W)	4800	7040
Max.PV Input Voltage(V)	500	
Start-up Voltage(V)	75	
PV Input Voltage Range (V)	370(60-500)	
MPPT Input Range(V)	60-425	
Max Operating PV Input Current(A)	18	
Max.PV Input Short-Circuit Current(A)	20	
No.of MPPT Trackers/No.of Strings per MPPT Tracker	1/1	
AC Input/Output		
Rated AC Input/Output Active Power(W)	3000	4400
Max. AC Input/Output Apparent Power(VA)	3300	4840
Peak Power (off-grid)(W)	2 times of rated power，10S	
Rated AC Input/Output Current(A)	13.0	19.1
Max.Continuous AC Passthrough(grid to load) (A)	29	
Rate Input/Output Voltage(V)	220/230	
Grid Connection Form	L+N+PE	
Rate Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz	
Power Factor Adjustment Range	0.8 leading-0.8 lagging	
Total Current Harmonic Distortion THDi	THD<3%(Linear load <1.5%)	
Equipment Protection		
Integrated	AC Output Overcurrent Protection,AC Output Overvoltage Protection,AC Output Short Protection,Thermal Protection,DC Terminal Insulation Impedance Monitoring,Ground Fault Current Monitoring,Island Protection Monitoring,Residual Current Detection (RCD)	
Surge Protection Level	TYPE II(DC),TYPE II(AC)	
Efficiency		
Max.Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99%	
Inerface		
Display	LCD+LED	
Communication Interface	RS485,CAN	
Monitor Mode	WIFI	
General Data		
Operating Temperature Range	-40-60°C(>45°C derating)	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	2000m	
Noise	<55dB	
Ingress Protection(IP) Rating	IP65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC),OVC III(AC)	
Cabinet size(W*H*D)(mm)	380*380*130(Excluding connectors and brackets)	
Weight(kg)	10	
Type of Cooling	Smart Cooling	
EMC/Safety Regulation	IEC/ED 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-3	