

# 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
<b>Battery Input</b>		
Battery Type	Lead acid or Li-ion	
Battery Voltage(V)	24(20-30VDC)	
Battery Charge/Discharge Current(A)	110	168
Charging Strategy for Li-Ion	Self-Adaption to BMS	
<b>PV Input</b>		
Max.PV Input Power(W)	4800	7040
Max.PV Input Voltage(V)	500	
Start-up Voltage(V)	80	
PV Input Voltage Range (V)	370 ( 80-500)	
MPPT Input Range(V)	80-425	
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	
<b>AC Input/Output</b>		
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%)	
<b>Equipment Protection</b>		
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)	
<b>Efficiency</b>		
Max.Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99%	
<b>Interface</b>		
Display	LCD+LED	
Communication Interface	RS485,CAN	
Monitor Mode	WIFI	
<b>General Data</b>		
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*120(Excluding connectors and brackets)	
Weight(kg)	10	
Type of Cooling	Air Cooling	
EMC/Safety Regulation	IEC/ED 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-3	