

# Single Phase Hybrid Inverter

Plu-5/6/6.6G1-LE



## Product Features

- Up to 20 PCS inverters parallel for off-grid operation
- Charging and discharging current up to 150A
- 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	Plu-5G1-LE	Plu-6G1-LE	Plu-6.6G1-LE
<b>Battery Input</b>			
Battery Type	Lead acid or Li-ion		
Battery Voltage(V)	48(40-60)		
Battery Charge/Discharge Current(A)	110	135	150
Charging Strategy for Li-Ion	Self-Adaption to BMS		
<b>PV Input</b>			
Max.PV Input Power(W)	8000	9600	10600
Max.PV Input Voltage(V)	500		
Start-up Voltage(V)	125		
PV Input Voltage Range (V)	370 (125-500)		
MPPT Input Range(V)	150-425		
Max Operating PV Input Current(A)	18+18		
Max.PV Input Short-Circuit Current(A)	27+27		
No.of MPPT Trackers/No.of Strings per MPPT Tracker	2/1+1		
<b>AC Input/Output</b>			
Rated AC Input/Output Active Power(W)	5000	6000	6600
Max. AC Input/Output Apparent Power(VA)	5000	6000	6600
Peak Power (off-grid)(W)	2 times of rated power, >10S		
Rated AC Input/Output Current(A)	21.7	26.1	28.7
Max.Continuous AC Passthrough(grid to load) (A)	40		
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	3000m		
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)	H450*W305*D165(Excluding connectors and brackets)		
Weight(kg)	13		
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		