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
Battery Input			
Battery Type		Lead acid or Lithium-ion	
Battery Voltage(V)		48(40-60)	
Battery Charge/Discharge Current(A)	110	135	150
Charging Strategy for Li-Ion		Self-Adaption to BMS	
PV Input			
Max.PV Input Power(W)	8000	9600	10560
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+18	
Max.PV Input Short-Circuit Current(A)		27+27	
No.of MPPT Trackers/No.of Strings per MPPT Tracker		2/1+1	
AC Input/Output			
Rated AC Input/Output Active Power(W)	5000	6000	6600
Max. AC Input/Output Apparent Power(VA)	5500	6600	7150
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%)	
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(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		<40dB	
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)		14.8	
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	