

Triple Phase Hybrid Inverter

Mars-5/6/8/10/12/14G1-LE
Mars-5/6/8/10/12/14G2-LE



Product Features

- 100% unbalanced output each phase max. output up to 5kW
- Up to 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Colorful 7-inch touch LCD, IP65 protection degree
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

Technical Data						
Model	Mars-5G1-LE Mars-5G2-LE	Mars-6G1-LE Mars-6G2-LE	Mars-8G1-LE Mars-8G2-LE	Mars-10G1-LE Mars-10G2-LE	Mars-12G1-LE Mars-12G2-LE	Mars-14G1-LE Mars-14G2-LE
Battery Input						
Battery Type			Lead-acid or Li-ion			
Battery Voltage Range (V)			40-60			
Max. Charge Current (A)	120	130	200	220	250	280
Max. Discharge Current (A)	120	130	200	220	250	280
Charging Curve			3 Stages/Equalization			
External Temperature Sensor			Optional			
Charging Strategy for Li-Ion Battery			Self-Adaption to BMS			
PV String Input						
Max. DC Input Power (W)	7,500	9,000	12,000	15,000	18,000	20,000
PV Input Voltage (V)			650(160-800)			
MPPT Range (V)			200~700			
Full Load DC Voltage Range (V)			260-650			
Start-up Voltage (V)			160			
PV Input Current (A)			26+17			
Max. PV Isc (A)			34+20			
No. of MPPT Trackers			2			
No. of Strings per MPPT Trackers	2/1	2/1	2/1	2/1	2/1	2/1
AC Output						
Rated AC Output and UPS Power (W)	5,000	6,000	8,000	10,000	12,000	14,000
Max. AC Output Power (W)	6,000	7,200	9,600	12,000	13,200	15,400
Peak PoWer(off grid)		2 times of rated power, 10s		18000W, 10s		
AC Output Rated Current (A)	7.3	8.7	11.6	14.5	17.4	20.3
Max. AC Current (A)	10.8	13	17.4	21.7	26	26
Max. Continuous AC Passthrough (A)	26	26	26	26	26	26
Power Factor			0.8 leading to 0.8 lagging			
Output Frequency and Voltage (V)			50/60Hz, 230/400Vac(Triple phase)			
Grid Type			Three phase			
Current Harmonic Distortion			THD<3%(Linear load<1.5%)			
Efficiency						
Max. Efficiency			97.90%			
Euro Efficiency			97.00%			
MPPT Efficiency			99.90%			
Protection						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection					
PV ARC Fault Detection			Optional			
Output Over Voltage Protection			DC Type II/AC Type III			
Certifications and Standards						
Grid Regulation		CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-II				
Safety Regulation			IEC/EN62109-1, IEC/EN62109-2			
EMC		IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4				
General Data						
Operating Temperature Range (°C)			-45~60, >45 Derating			
Cooling			Smart Cooling			
Noise (dB)			≤45			
Communication with BMS			CAN, RS485			
Weight (kg)	38	40	42	44	44	45
Dimensions (mm)			G1:510W×630H×290D/G2:550W×730H×290D			
Protection Degree			IP65			
Installation Style			Wall-mounted			