Three Phase Hybrid Inverter

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



Product Features

- Support different power inverters parallel connection
- 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 rating
- 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
Max.PV Input Voltage(V)	800					
PV Input Voltage (V)	650(160~800)					
MPPT Range (V)	200~750					
Full Load DC Voltage Range (V)	350~750					
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 Tracker	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)	5,500	6,600	8,800	11,000	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(Three-phase)					
Grid Type	Three phase					
Current Harmonic Distortion	THD<3%(Linear load<1.5%)					
Efficiency						
Max. Efficiency	97.90%					
Euro Efficiency	96.90%					
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						
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 (℃)	-45~60, >45 Derating					
Cooling	Smart Cooling					
Noise (dB)	≤45					
Communication with BMS	CAN, RS485					
Weight (kg)	42/44					
Dimensions (mm)	550W×730H×290D					
Protection Degree	IP65					
Installation Style	Wall-mounted					