

Three Phase Hybrid Inverter

MARS G2 SERIES

5/6/8/10/12/14kW



MAX. PV INPUT CURRENT

26A+17A

MAX. EFFICIENCY

>97.90%

MAX. PV INPUT

20kW

MAX. BATTERY CHARGING/DISCHARGING CURRENT

280A



PRODUCT FEATURES

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

Technical Data

Model	Mars-5G2-LE	Mars-6G2-LE	Mars-8G2-LE	Mars-10G2-LE	Mars-12G2-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)	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(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,C10-11					
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)				550W×730H×290D		
Protection Degree				IP65		
Installation Style				Wall-mounted		