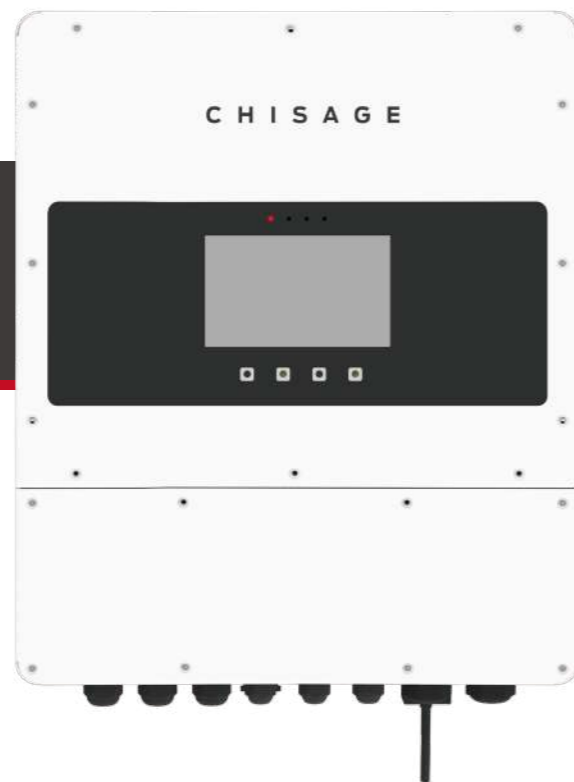


# Triple/Single Phase Hybrid Inverter

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



## Product Features

- Support different power inverters parallel connection
- Unlimited quantity inverters parallel for on-grid and off-grid operation
- Support triple-phase mode and full-power single-phase mode
- 100% unbalanced output, each phase max. output up to 50% rated power
- 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
- Dual AC input port for grid and diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

## Technical Data

Model	Mars-5G1-LE	Mars-6G1-LE	Mars-8G1-LE	Mars-10G1-LE	Mars-12G1-LE
<b>Battery Input</b>					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charge Current (A)	120	150	190	210	240
Max. Discharge Current (A)	120	150	190	210	240
Charging Curve	3 Stages/Equalization				
External Temperature Sensor	Yes				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
<b>PV String Input</b>					
Max. DC Input Power (W)	6,500	7,800	10,400	13,000	15,600
PV Input Voltage (V)	550(160~800)				
MPPT Range (V)	200~650				
Full Load DC Voltage Range (V)	260~650				
Start-up Voltage (V)	160				
PV Input Current (A)	17+17		34+17		
Max. PV Isc (A)	20+20		40+20		
No. of MPPT Trackers			2		
No. of Strings per MPPT Trackers	1+1				2+1
<b>AC Output</b>					
Rated AC Output and UPS Power (W)	5,000	6,000	8,000	10,000	12,000
Max. AC Output Power (W)	5,500	6,600	8,800	11,000	13,200
Peak Power(off grid)	2 times of rated power, 10s				
AC Output Rated Current (A)	7.6/7.2	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Current (A)	11.4/10.9	13.6/13	18.2/17.4	22.7/21.7	27.3/26.1
Max. Continuous AC Passthrough (A)	50				
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage (V)	50/60Hz, 380/400Vac(Triple phase), 220/230Vac(Single phase)				
Grid Type	Triple phase/single phase				
Current Harmonic Distortion	THD<3%(Linear load<1.5%)				
<b>Efficiency</b>					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	99.90%				
<b>Protection</b>					
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				
<b>Certifications and Standards</b>					
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				
<b>General Data</b>					
Operating Temperature Range (°C)	-40~60, >45 Derating				
Cooling	Smart Cooling				
Noise (dB)	<45				
Communication with BMS	RS485, CAN				
Weight (kg)	36				
Dimensions (mm)	500.5Wx628.9Hx289.5D				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5 years				