

HYBRID SOLAR INVERTER

Galaxy 6G EU 12kw-48V Three Phase



LCD Screen, IP65 Protection degree

10

Max. 10pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

240

Max. charging/discharging current of 240A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator



Maximum DC input power 18000W



Rated AC Input/Output Active Power 12000W



5 years warranty

Model	Galaxy 6G EU 12kw-48V Three Phase
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	240
Max. Discharging Current (A)	240
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	18000W
Rated PV Input Voltage (V)	550V (160V~800V)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200V-650V
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	26A+13A
Max. PV I _{SC} (A)	34A+17A
No.of MPP Trackers	2
No.of Strings per MPP Tracker	2+1
AC Output Data	
Rated AC Output Active Power (W)	12000
Max AC Output Active Power (W)	13200
AC Output Rated Current (A)	18.2/17.4
Max AC Output Current (A)	20/19.1
Max. Three-phase Unbalanced Output Current (A)	27.3/26.1
Max Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	45A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	THD<3%(Linear load<1.5%)
DC current injection	<0.5% I _n
Efficiency	
Max. Efficiency	97.60%
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, Surge protection
Output Over Voltage Protection	DC Type II/AC Type III
Certifications and Standards	
Grid Regulation	UL1741, IE1547, RULE21, VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cooling	Intelligent Air Cooling
Noise (dB)	≤50 dB
Communication with BMS	RS485; CAN
Weight (kg)	38Kg
Cabinet Size (WxHxD mm)	422×658×254 (Excluding Connectors and Brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy