

Hybrid Inverter

Galaxy 6G EU 8KW Three Phase



- 100** 100% unbalanced output, each phase; Max. output up to **50%** rated power
- DC/AC** DC couple and AC couple to retrofit existing solar system
- 16** Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 240** Max. charging/discharging current of 240A
- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
- Generator** Support storing energy from diesel generator

Technical Data

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Model	Galaxy 6G EU 8kw-48V
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
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)	10400
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	12.5+12.5/12.5
Max. PV I _{SC} (A)	34+17
No. of MPP Trackers	2
No. of Strings per MPP Tracker	2+1
AC Output Data	
Rated AC Output Active Power (W)	8000
Max AC Output Active Power (W)	8800
AC Output Rated Current (A)	12.1/11.6
Max AC Output Current (A)	13.4/12.8
Max. Three-phase Unbalanced Output Current (A)	18.2/17.4
Max Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	60A
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)	-25-60°C, >45°C Derating
Cooling	Smart cooling
Noise (dB)	≤30 dB
Communication with BMS	RS485; CAN
Weight (kg)	45
Size (mm)	422W x 702H x 281D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years