

Hybrid Inverter

Galaxy 6G 3.6kw / 5kw-48v EU



Colorful touch LCD,
IP65 protection degree



6 time periods for battery
charging/discharging



Max. charging/discharging
current of 120A



Frequency droop control,
Max. 16pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

Technical Specifications

Model	Galaxy 6G 3.6kw-48v EU	Galaxy 6G 5kw-48v EU
Battery Input Data		
Battery Type		Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60V	
Max. Charging Current (A)	90A	
Max. Discharging Current (A)	90A	120A
Charging Curve		120A
External Temperature Sensor		3 Stages / Equalization
Charging Strategy for Li-Ion Battery		Optional
PV String Input Data		Self-adaption to BMS
Max. DC Input Power (W)	4680W	
PV Input Voltage (V)	370V (100V~500V)	6500W
MPPT Range (V)	125~425V	
Full Load DC Voltage Range	240~425V	
Start-up Voltage (V)	150V	
PV Input Current (A)	12.5A+12.5A	
No.of MPPT Trackers	2	
No.of Strings Per MPPT Tracker	1+1	
AC Output Data		
Rated AC Output and UPS Power (W)	3600W	5000W
Max. AC Output Power (W)	3960W	5500W
Peak Power (off grid)		2 times of rated power, 10 S
AC Output Rated Current (A)	16.3A	22.7A
Max. AC Current (A)	18A	25A
Max. Continuous AC Passthrough (A)	35A	
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50/60Hz; 220/230 / 240Vac (single phase)	
Grid Type	Single Phase	
Current Harmonic Distortion	THD<3% (Linear load<1.5%)	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
Protection		
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Output Over Voltage Protection	Integrated	
Surge protection	Integrated	
Certifications and Standards		DC Type II / AC Type II
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699: 2011, XP C15-712-3: 2019-05	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3	
General Data		
Operating Temperature Range (°C)	-25~60°C, >45°C Derating	
Cooling	Fan	
Noise (dB)	<30	
Communication with BMS	RS485; CAN	
Weight (kg)	20.5	
Size (mm)	580W × 330H × 208D	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	

Hybrid Inverter

Galaxy 6G 7.6kw / 8kw-48v EU



Colorful touch LCD,
IP65 protection degree

6

6 time periods for battery
charging/discharging

190

Max. charging/discharging
current of 190A

16

Frequency droop control,
Max.16pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

Technical Specifications

Model	Galaxy 6G 5kw-48v US	Galaxy 6G 6kw-48v US	Galaxy 6G 7.6kw-48v EU	Galaxy 6G 8kw-48v EU
Battery Input Data				
Battery Type			Lead-acid or Lithium-ion	
Battery Voltage Range (V)		40~60V		
Max. Charging Current (A)	120A	135A	190A	190A
Max. Discharging Current (A)	120A	135A	190A	190A
Charging Curve		3 Stages / Equalization		
External Temperature Sensor		Optional		
Charging Strategy for Li-Ion Battery		Self-adaption to BMS		
PV String Input Data				
Max. DC Input Power (W)	6500W	7800W	9880W	10400W
PV Input Voltage (V)		370V (100V~500V)		
MPPT Range (V)		125V-425V		
Start-up Voltage (V)		150V		
PV Input Current (A)	12.5A+12.5A	22A+12.5A	22A+22A	22A+22A
No.of MPPT Trackers		2		
No.of Strings Per MPPT Tracker	1+1	2+1	2+2	2+2
AC Output Data				
Rated AC Output and UPS Power (W)	5000W	6000W	7600W	8000W
Max. AC Output Power (W)	5500W	6600W	8360W	8800W
Peak Power (off grid)		2 times of rated power, 10 S		
AC Output Rated Current (A)	20.8A	25A	31.7A / 33A	33.4A / 35A
Max. AC Current (A)	26.4A	31.7A	40.1A / 38A	42.3A / 40A
Max. Continuous AC Passthrough (A)	35A	40A	50A	50A
Output Frequency and Voltage	50 / 60Hz; 120 / 240Vac (split phase), 208Vac (2 / 3 phase), 230Vac (single phase)			
Grid Type		Split phase 、 2 / 3 phase 、 Single Phase		
Current Harmonic Distortion		THD<3% (Linear load<1.5%)		
Efficiency				
Max. Efficiency		97.60%		
Euro Efficiency		97.00%		
MPPT Efficiency		99.90%		
Protection				
PV Arc Fault Detection		Integrated (Except European Type)		
PV Input Lightning Protection		Integrated		
Anti-islanding Protection		Integrated		
PV String Input Reverse Polarity Protection		Integrated		
Insulation Resistor Detection		Integrated		
Residual Current Monitoring Unit		Integrated		
Output Over Current Protection		Integrated		
Output Shorted Protection		Integrated		
Output Over Voltage Protection		Integrated		
Surge protection		Integrated		
Certifications and Standards				
Grid Regulation	UL1741, IEEE1547, RULE21, VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727			
Safety Regulation		IEC62109-1, IEC62109-2		
EMC		EN61000-6-1, EN61000-6-3, FCC 15 class B		
General Data				
Operating Temperature Range (°C)		-25~60°C, >45°C Derating		
Cooling		Fan		
Noise (dB)		<30		
Communication with BMS		RS485; CAN		
Weight (kg)		32		
Size (mm)		670W × 420H × 233D		
Protection Degree		IP65		
Installation Style		Wall-mounted		
Warranty		5 years		

Three Phase Hybrid Inverter

Galaxy 6G 8kw / 10kw / 12kw-48v 3P EU



48 48V low voltage battery, transformer isolation design

16 Frequency droop control, Max.16pcs parallel

6 6 time periods for battery charging/discharging

 DC couple and AC couple to retrofit existing solar system

250 Max. charging/discharging current of 250A

 Support storing energy from diesel generator

Technical Specifications

Model	Galaxy 6G 8kw-48v 3P EU	Galaxy 6G 10kw-48v 3P EU	Galaxy 6G 12kw-48v 3P EU
Battery Input Data			
Battery Type		Lead-acid or Li-ion	
Battery Voltage Range (V)	40~60V		
Max. Charging Current (A)	190A	210A	240A
Max. Discharging Current (A)	190A	210A	240A
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	9880W	13000W	15000W
PV Input Voltage (V)	370V (100V~500V)	125V-425V	
MPPT Range (V)	150V		
Start-up Voltage (V)	12.5A+12.5A	12.5A+12.5A	22A+12.5A
PV Input Current (A)		2	
No.of MPPT Trackers	1+1	1+1	1+1
No.of Strings Per MPPT Tracker			
AC Output Data			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Max. AC Output Power (W)	8800W	11000W	13000W
Peak Power (off grid)		2 times of rated power, 10 S	
AC Output Rated Current (A)	11.6A	14.5A	17.4A
Max. AC Current (A)	17.4A	21.7A	26A
Max. Continuous AC Passthrough (A)	48A	48A	48A
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)		
Grid Type	Three Phase		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		
Protection			
PV Arc Fault Detection	Integrated (Except European Type)		
PV Input Lightning Protection	Integrated		
Anti-islanding Protection	Integrated		
PV String Input Reverse Polarity Protection	Integrated		
Insulation Resistor Detection	Integrated		
Residual Current Monitoring Unit	Integrated		
Output Over Current Protection	Integrated		
Output Shorted Protection	Integrated		
Output Over Voltage Protection	Integrated		
Surge protection	Integrated		
Certifications and Standards			
Grid Regulation	UL1741, IEEE1547, RULE21, VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727		
Safety Regulation	IEC62109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
General Data			
Operating Temperature Range (°C)	-25~60°C, >45°C Derating		
Cooling	Fan		
Noise (dB)	<30		
Communication with BMS	RS485; CAN		
Weight (kg)	45		
Size (mm)	673W×462H×265D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		