

Three Phase Hybrid Inverter

Galaxy 7G PRO 18Kw-48V



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



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



Max. charging/discharging current of 350A



6 time periods for battery charging/discharging



Support storing energy from diesel generator



Rated AC Input/Output Active Power 20000W



Max. PV Input Power 30000W

Model	Galaxy 7G PRO 18kw-48V
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	350
Max. Discharging Current (A)	350
Number of Battery Input	1
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	30000
Max. PV Input Voltage (V)	800
Start-up Voltage (V)	160
MPPT Voltage Range (V)	160V-650V
Rated PV Input Voltage (V)	550
Max. Operating PV Input Current (A)	36+20
Max. Input Short-Circuit Current (A)	54+30
No.of MPP Trackers	2
No.of Strings per MPP Tracker	2+1
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	20000
Max. AC Input/Output Apparent Power (VA)	22000
Rated AC Input/Output Current (A)	30.4/29
Max. AC Input/Output Current (A)	30.4/29
Max. Continuous AC Passthrough (grid to load) (A)	70A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In
Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Type of Cooling	Intelligent Air Cooling
Noise (dB)	<60
Communication with BMS	RS485; CAN
Weight (kg)	50.6
Cabinet Size (WxHxD mm)	456×750×268.5 (Excluding Connectors and Brackets)
Ingress Protection(IP) Rating	IP65
Installation Style	Wall-mounted
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Warranty	6 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty