

MODEL **SG-6KWHBT**



Model	SG-6KWHBT
PV Input	
Recommended Max. input power[kW]	9.0
Start-up voltage[V]	135
Max. DC input voltage* [V]	1000*
Rated DC input voltage [V]	620
MPPT voltage range*[V]	120-950*
No. of MPP trackers	2
No. of DC inputs per MPPT	1/1
Max. input current [A]	15/15
Max. short-circuit current [A]	20/20
Battery Side	
Battery type	Lithium Battery (with BMS)
Battery voltage range [V]	135-750
Maximum charging/discharge current [A]	25/25
Grid Side	
Rated output power [kW]	6.0
Max. output apparent power [kVA]	6.6
Max. input apparent power** [kVA]	12.0
Max. charging power of battery [kW]	6.0
Rated AC voltage	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated AC frequency [Hz]	50/60
Max. output current [A]	10.0
Power factor	0.8 leading 0.8 lagging
Max. total harmonic distortion	<3% @Rated output power
DCI	< 0.5% In
Backup	
Rated output power [kW]	6.00
Max. output apparent power [KVA]	6.60
Max. output current [A]	10.00
UPS switching time	<10ms
Rated output voltage	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated output frequency [Hz]	50/60
Voltage harmonic distortion	<3% @Linear load
Efficiency	
Max. efficiency	98.1%
European efficiency	97.3%
Protection	
DC reverse polarity protection	Integrated
Battery input reverse connection protection	Integrated
Insulation resistance protection	Integrated
Surge protection	Integrated
Over-temperature protection	Integrated
Residual current protection	Integrated
Islanding protection	Integrated
AC over-voltage protection	Integrated
Overload protection	Integrated
AC short-circuit protection	Integrated
General Data	
Over voltage category	CC:II CA:III
Dimensions [LxAxP] mm]	534x418x210
Weight [KG]	26.0
Protection degree	IP65
Standby self-consumption [W]	<15
Topology	Transformerless
Operating Temperature Range [°C]	-30~60
Relative Humidity [%]	0~100
Operating Altitude [m]	3000 (declassamento@>3000m)
Cooling	Natural Convection
Noise Level [dB]	<25
Display	OLED & LED
Communication	CAN, RS485, WiFi/LAN (Optional)

* PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting;

** Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1) G98: 10.5kVA; 2) G98: 16.00A 3)CEI 0-21

Compatible battery range from SG/EBS-5150-7 to SG/EBS-5150-20

designed in Italy