MODEL **SG-30KWHBT**

SOLARMG designed in Italy

Model	SG-30KWHBT
PV Input	
Recommended Max. input power [kW]	45.0
Start-up voltage [V]	135
Max. DC input voltage* [V]	1000*
Rated DC input voltage [V]	620
MPPT voltage range*[V]	200-850*
No. of MPP trackers	4
No. of DC inputs per MPPT	2
Max. input current [A]	30x4
Max. short-circuit current [A]	40x4
Battery Side	
Battery type	Lithium-ion (with BMS)
Battery voltage range [V]	135-750
Maximum charging/discharge current [A]	100/100
Grid Side	
Rated output power [kW]	30.0
Max. output apparent power [kVA]	33.0
Max. input apparent power** [kVA]	36.0
Max. charging power of battery [kW]	30.0
Rated AC voltage	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated AC frequency [Hz]	50/60
Max. output current [A]	50.0
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]	30.0
Max. output apparent power [KVA]	33.0
Max. output current [A]	50.0
UPS switching time	<20ms
Rated output voltage	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated output frequency [Hz]	50/60
Voltage harmonic distortion	<3% @Linear load
Generator Side	
Max. intput apparent power** [KVA]	36.0
Max. charging power of battery[kW]	30.0
Rated AC voltage	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated AC frequency	50/60
Efficiency	
Max. efficiency	98.8%
European efficiency	98.3%
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]	800x620x300
Weight [KG]	72.0
Protection degree	IP65
Standby self-consumption [W]	<15
Topology	Transformerless
Operating Temperature Range [°C]	-30~60
Relative Humidity [%]	0~100
Operating Altitude [m]	3000 (derating@>3000m)
Cooling	Smart fan
Noise Level [dB]	<50
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) AS 4777.2, VDE-AR-N 4105 30.0kVA, 2) AS 4777.2, VDE-AR-N 4105 43.5A, 3) CEI 0-21, 4) CEI 0-16
Compatible with SG/H32148 batteries