

MODEL SG-10KWHBT

INVERTERS



Efficiency	
Max. efficiency (PV to AC)	98.4%
Eur.Max. efficiency (PV to AC)	97.9%
Max. efficiency (BAT)	98.0%
Inputs (PV)	
PV power max	15000W
PV voltage max	1000V
Max Input current (A/B)	20A/30A
Max short circuit current (A/B)	30A/40A
MPPT voltage range	160V-950V
N. independent MPPTs	2
N. strings for MPPT	1+2
Input (BAT)	
Compatible battery type	Lithium-ion / Lead-acid
Battery nominal voltage	200V-600V
Battery voltage range	150V-600V
Max. charge/discharge current	50A/50A
Max. charge/discharge power	15000W/10500W
Lithium battery charge curve	Self-adaption to BMS
Output (Grid)	
Nominal AC output power	10000W
Max. apparent AC output power	10000VA
Max. AC output power	10000W
Max. AC output current	3*15.2A
AC rated voltage	380V / 400V
AC voltage range	277V-520V (Adjustable)
Nominal grid frequency	50Hz/ 60Hz
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)
Network connection	Three phase
Power factor	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
THDI	<3% (Rated Power)
Output (Back up)	
Nominal AC output voltage	380V / 400V
Nominal output frequency	50Hz/ 60Hz
Rated output power	10000W
Rated output current	3*15.2A
Transfer time	10ms (typ) / 20ms (max)
THDV	<3% (R Load), 5% (RCD Load)
Protection	
Anti-islanding protection	Yes
AC overcurrent protection	Yes
AC short circuit protection	Yes
AC overvoltage protection	Yes
Surge arrester	DC Type II, AC Type II
Isolation control	Yes
GFCI	Yes
AFCI	Optional
RSD	Optional
General	
Max. operating altitude	4000m
Noise emission	30dB
Environmental protection grade	IP65
Operating temperature range	-25°C~45°C
Relative humidity	0~100%
Cooling mode	Natural Cooling
Assembly	Wall bracket
Dimensions (W*H*D)	530mm*550mm*212mm
Weight	29Kg
PV connection mode	MC4/H4
Battery connection way	Dedicated DC connector
HMI & COM	
Display	LED+APP (Bluetooth)
Communication interface	BMS (CAN/RS485), Optional: WiFi/GPRS/4G/Ethernet, DI (DRM/RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)
Certification	
Rete	IEC 61000-1/2/3/4, G99, NRS 097, EN 50549-1, IEC 61727/62116, CEI 021
Safety	IEC 62109-1/2
Warranty	5 / 10 year (optional)

*The output voltage and frequency range may vary according to different grid codes.

*Specifications are subject to change without notice.

designed in Italy