

Single-Phase Residential Energy Storage Inverter

IP66-HB6K48ME



IP66 all-aluminum chassis, adaptable to outdoor environment



High charge/discharge efficiency, compatible with lithium battery and lead-acid battery



Flexibly settable charge/discharge time section and power, peak load shaving



APP real time monitoring, easy maintenance



Outstanding off-grid output performance, adaptable to various non-linear load

Hybrid Inverter Specification

MODEL	IP66-HB6K48ME
PV input parameter	
Max. input power	7800W
Max. input voltage	550Vdc
Rated input voltage	360Vdc
Start-up voltage	100Vdc
Min. operating voltage	150Vdc
MPPT voltage range	100-540Vdc
Max. input current per MPPT	16A/16A
Max. short-circuit current per MPPT	24A/24A
Number of MPPT	2
Number of input strings per MPPT	1/1
Battery input parameter	
Battery type	Li-ion, Lead-acid battery
Voltage range	42-58Vdc
Max. charge current	100A
Max. discharge current	120A
Charging curve	3 Stages/Equalization
Lithium battery charging strategy	BMS self-adaption
AC input parameter(grid)	
Grid type	Single phase(L/N/PE)
Input voltage range	184~276Vac
Input frequency range	50±5Hz/60±5Hz
Max. input current	40A
AC output parameter(grid)	
Rated output power	6000W
Max. apparent output power	6000VA
Grid system mode	Single phase(L+N+PE)
Rated output voltage	220Vac/230Vac
Rated output frequency	50Hz/60Hz
Rated output current	27.3A/26.1A
Max. output current	27.3A
Power factor	>0.99(0.8 leading-0.8 lagging)
THDI	≤3%(@Rated Power)
AC output parameter(back-up)	
Rated output power	6000W
Max. apparent power	6000W
Output system mode	Single phase(L+N+PE)
Rated output voltage	230Vac(208/220/240Vac settable)
Rated output frequency	50Hz/60Hz
Rated output current	26.1A
Max. output current	28.8A
THDV	≤3%(linear load)
Transfer time	≤10ms
Efficiency	
Max. efficiency	97.8%
MPPT efficiency	99.9%
Protections	
Protections	Over/under voltage, over/under-frequency, over load, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance, anti islanding, surge protection
Output overvoltage protection	DC Type II/AC Type III
Others	
Communications	RS485, WIFI
Dimensions(WxHxD)(mm)	548x440x197
Net weight(kg)	24.8
Topology	High frequency isolation(for battery)
IP rating	IP66
Operating temperature	-25°C~+60°C(>45°C derating)
Cooling mode	Natural cooling
Altitude	4000m
Noise level at 1 m	≤25dB
Installation mode	Wall-mounted
Standards	
Safety regulation	IEC/EN 62109-1/-2, AS62109
EMC	EN 61000-6-1/-2/-3/-4
Grid connection	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, AS4777.2, NRS097-2-1, EN 50549-1