

SINGLE PHASE HYBRID INVERTER

HCB05-SPM-502/602/802G-EU

FEATURES



Colorful touch LCD, Ip65 protection degree



Ac coupling to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



6 time periods for battery charging/discharging



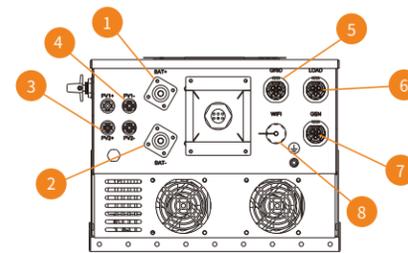
Support storing energy from diesel generator



CERTIFICATIONS

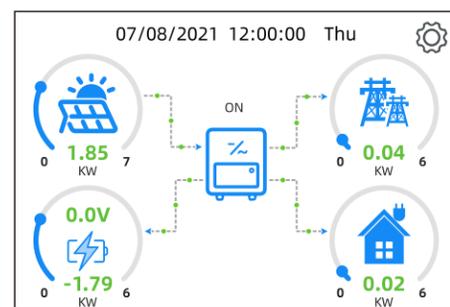


PRODUCT CHARACTERISTICS



- 1.BAT+
- 3.PV1+
- 5.GRID
- 7.GEN
- 2.BAT-
- 4.PV1-
- 6.LOAD
- 8.WIFI

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Data Sheet

Model	HCB05-SPM-502G-EU	HCB05-SPM-602G-EU	HCB05-SPM-802G-EU
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range(V)	40-60	40-60	40-60
Max.Charging Current(A)	120	135	190
Max.Discharging Current(A)	120	135	190
Charging Curve	3 Stages/Equalization		
External Temperature Sensor	Yes		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max.DC Input Power(W)	6500	7800	10400
PV Input Voltage(V)	370V(125V-500V)		
MPPT Range(V)	150-425V		
Full Load DC Voltage Range	300-425V		
Start-up Voltage(V)	125V		
PV Input Current(A)	18+18	18+18	26+26
Max.PV Isc(A)	27+27	27+27	34+34
No.of MPPT Trackers	2	2	2
No.of Strings Per MPPT Tracker	1+1	1+1	1+1
AC Input/Output Data			
Rated AC Output and UPS Power(W)	5000	6000	8000
Max. AC Output Power(W)	5500	6600	8800
Peak Power(off grid)	2 times of rated power,10S		
AC Input/Output Rated Current(A)	22.8/21.8	27.3/26.1	36.4/34.8
Max. AC Input/Output Current(A)	25/24	30/28.7	40/38.3
Max.Continuous AC Passthrough(A)	35	40	50
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50/60Hz;220/230Vac		
Grid Type	Single Phase		
Total Harmonic Distortion(THDi)	<3%(of nominal power)		
DC current injection	<0.5% In		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	>99%		
Protection			
PV Arc Fault Detection	Integrated		
PV Input Lightning Protection	Integrated		
Anti-islanding Protection	Integrated		
PV String Input Reverse Polarity Protection	Integrated		
Insulation Resistor Detection	Integrated		
Residual Current Monitoring Unit	Integrated		
Output Over Current Protection	Integrated		
Output Shorted Protection	Integrated		
Surge Protection	DC Type II/AC Type II		
Over Voltage Category	DC Type II/AC Type III		
Certifications and Standards			
Grid Regulation	IEC61727/62116,EN50549-1		
EMC/Safety Regulation	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2		
General Data			
Operating Temperature Range(°C)	40-60°C,>45°C Derating		
Cooling	Smart cooling		
Noise(dB)	<50 dB		
Communication with BMS	RS485;CAN		
Monitoring mode	wi-Fi+APP		
Weight(kg)	19	24	
Cabinet size(mm) (Excluding connectors and brackets)	346Wx416Hx250D (Excluding connectors and brackets)		346Wx516Hx250D (Excluding connectors and brackets)
Cabinetsize(mm)	IP65		
Installation Style	Wall-mounted		
Warranty	5 Years		