

THREE PHASE HYBRID INVERTER

HCB01-TPH-802/103/153/203/253G-EU

FEATURES

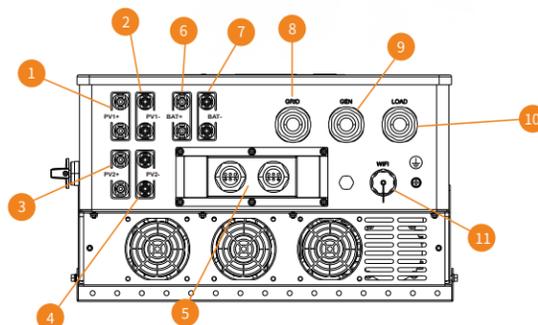
- 100% unbalanced output, each phase
- Ac coupling to retrofit Existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 50A
- High voltage battery, higher efficiency
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator



CERTIFICATIONS

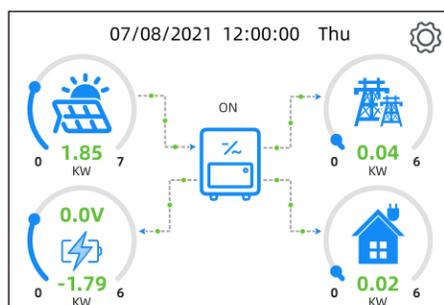


PRODUCT CHARACTERISTICS

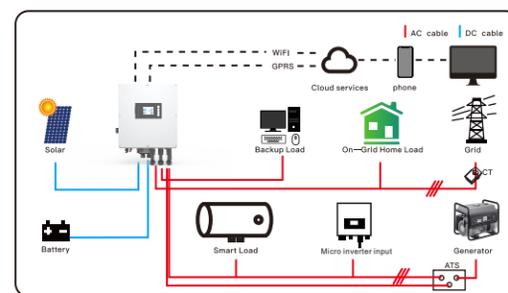


- 1.PV1+ 3.PV2+ 5.COM 7.BAT- 9.GEN 11.WIFI
- 2.PV1- 4.PV2- 6.BAT+ 8.GRID 10.LOAD

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Data Sheet

Model	HCB01-TPH-802G-EU	HCB01-TPH-103G-EU	HCB01-TPH-153G-EU	HCB01-TPH-203G-EU	HCB01-TPH-253G-EU
PV String Input					
Max. DC Input Power (W)	10400	13000	19500	26000	32500
Max. DC Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Range (V)	150-850				
Rated DC Input Voltage (V)	600				700
PV Input Current (A)	20+20		26+26		
Max. PV Isc (A)	30+30		39+39		
No.of MPPT Trackers	2				
No.of Strings per MPPT Tracker	1+1		2+2		
AC Input/Output Data					
Rated AC Output Power (W)	8000	10000	15000	20000	25000
Max. AC Output Power (W)	8800	11000	16500	22000	27500
AC Input/Output Rated Current(A)	12.2/11.6	15.2/14.5	22.8/21.8	30.4/29.0	37.9/36.3
Max.AC Input/Output Current(A)	13.4/12.8	16.7/16	25.0/24.0	33.4/31.9	41.7/39.9
Max. Three-phase Unbalanced Output Current (A)	18	22	30.0	35.0	41.7
Max. Continuous AC Passthrough (A)	40	40	80	80	80
Peak Power (Off Grid)	1.5 times of rated power, 10 S				
Generator Input/Smart Load/AC Couple Current (A)	12.2/40/12.2	15.2/40/15.2	22.8/80/22.8	30.4/80/30.4	37.9/80/37.9
Power Factor	0.8 leading - 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac				
Grid Type	Three Phase				
Total Harmonic Distortion	<3%				
Battery					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-700				
Max. Charging Current (A)	37			50	
Max. Discharging Current (A)	37			50	
Number of Battery Input	1				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	99.9%				
Protection					
Anti-islanding Protection	Yes				
PV String Input Reverse Polarity Protection	Yes				
Insulation Resistor Detection	Yes				
Residual Current Monitoring Unit	Yes				
Output Over Current Protection	Yes				
Output Shorted Protection	Yes				
Surge Protection	Yes				
Arc Fault Circuit Interruption (AFCI optional)	Yes				
Over Voltage Protection	Yes				
Certifications and Standards					
Grid Regulation	IEC61727/62116,EN50549-1				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data					
Operating Temperature Range (°C)	-25 °C ~ +60 °C				
Cooling	Smart Cooling				
Noise (dB)	<55 dB				
Communication with BMS	CAN				
Monitoring mode	WIFI, APP				
Size (WxHxD mm)	456Wx566Hx255D (Excluding Connectors and Brackets)				
Weight (kg)	30				
Ingress Protection	IP65				
Installation Style	Wall-mounted				
Warranty	5 Years (10 Years Optional)				