



PowerBase Series

Hybrid Inverter

5kW / 6kW / 6.5kW Single-Phase

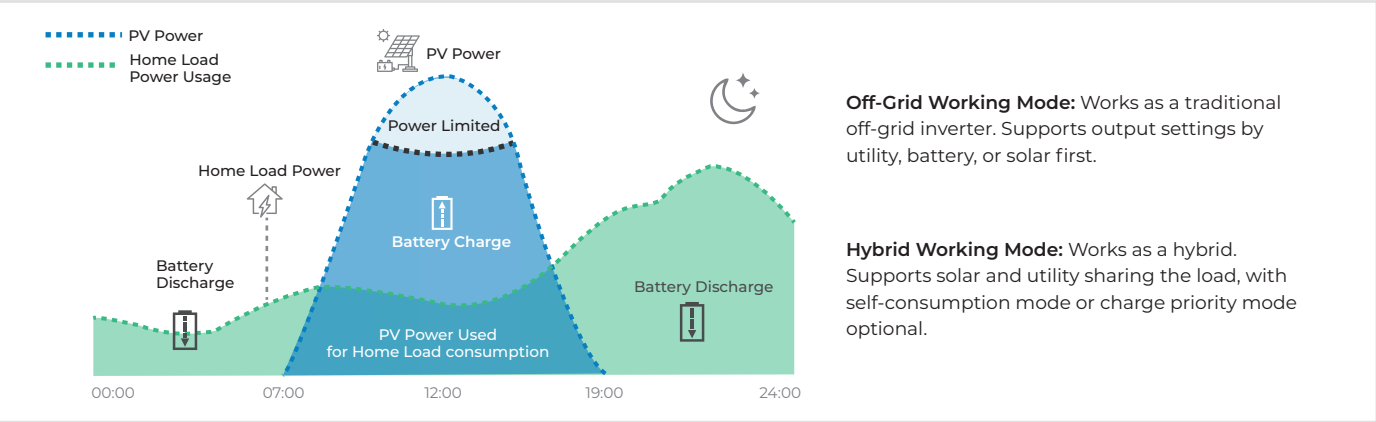
Support **Various Single-Phase** Loads

12 Units in Parallel

IP65 Protection Degree

5/10 Years Warranty

- Support App Monitoring & OTA Upgrades
- Support PV Oversizing for Burst Power Output
- High Performance with 2X Rated Power Peak for 10 Seconds
- IP65-Rated to Withstand Tough Environments
- Support Energy Storage from Diesel Generators
- Intelligent Fan Cooling



**Off-Grid Working Mode:** Works as a traditional off-grid inverter. Supports output settings by utility, battery, or solar first.

**Hybrid Working Mode:** Works as a hybrid. Supports solar and utility sharing the load, with self-consumption mode or charge priority mode optional.

System Specification

Model	PowerBase I5	PowerBase I6	PowerBase I6.5
Input - DC (PV)			
Max. Input Power (W)	9750		
Max. Input Voltage (V)	500		
MPPT Voltage Range (V)	85~450		
MPPT Voltage Range (Full load)	223~450		
Rated Voltage (V)	380		
Max. Input Current (A)	22.7	30	30
Max. Short Current (A)	32		
Maximum Solar Charging Current (A)	120		
No. of MPPT/No. of String per MPPT	2/1		
Input - DC (Battery)			
Norminal Voltage (V)	48		
Operation Voltage Range (V)	40-60		
Max. Charge / Discharge Power (W)	5000 / 5000	7000 / 6000	7000 / 6000
Max. Charge Current / Discharge Current (A)	105 / 112	120 / 135	120 / 145
Battery Type	Lead-acid/Lithium-ion		
Grid (AC Input)			
Max. Input Power (W)	10000	12000	13000
Max. Bypass Input Current (A)	43.5	54.5	60
Rated Grid Voltage (Vac)	220 / 230 / 240		
Rated Grid Frequency (Hz)	50 / 60		
Backup Output (AC Output)			
Rated Output Power (W)	5000	6000	6500
Surge Rating (VA, 10s)	10000	12000	13000
Rated Output Current (A)	22.7	27.3	29.5
Rated Output Voltage (V)	220/230/240 (Optional)		
Rated Frequency (Hz)	50/60		
THDV (@linear load)	< 3%		
Back-up Switch Time (ms)	10 (Typical)		
Overload Capacity (s)	5@≥150% Load ; 10@≥105%~150% Load		
Inverter Efficiency (Peak)	95%		
General Data			
Dimensions (WxDxH, mm / inch)	576 x 516 x 220 / 22.68 x 20.31 x 8.66		
Net Weight (kg / lbs)	20.5 / 45.19		
Operating Temperature Range (°C)	-10~50 (45 derating)		
Relative Humidity	0~95%		
Max. Altitude (m)	2000		
Electronics Protection Degree	IP65		
Communication	RS485 / CAN / Wi-Fi		
Cooling Mode	Fan Cooling		
Three-phase string	Yes		
Noise Level (dB)	55		
Certification	EN IEC 61000-6-1, EN IEC 61000-6-3, EN IEC62109-1		

[1] When the ambient temperature is too low or too high, the performance of battery may be limited.

[2] All pictures shown are for reference only and data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions. Only authorized personnel are allowed to operate or make adjustments to the inverters. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.