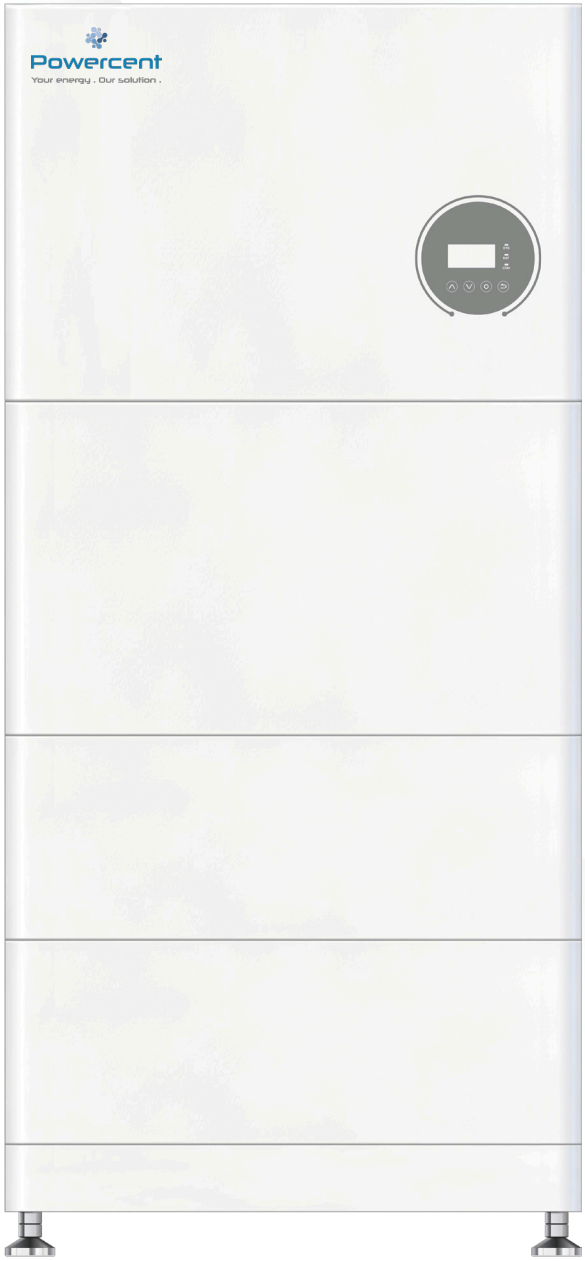
Single Phase

STORAGE SYSTEM

Powercent
Your energy . Our solution .



Trayingtso SERIES

INVERTER
3.6 / 5 / 6 / 8 / 10 kW

BATTERY
7 / 14 / 21 / 28 / 35 / 42 / 49 / 56 kWh

Key Features
- 6-layer battery safety protection for ultimate reliability;
- Integrated EMS for intelligent home energy optimization;
- VPP & FCAS ready, enabling grid service participation;
- Modular stackable design for fast plug-and-play installation;
- 200% backup overload capacity with up to 60A battery current.

UPS
Backup

97.3%
Max.Efficiency

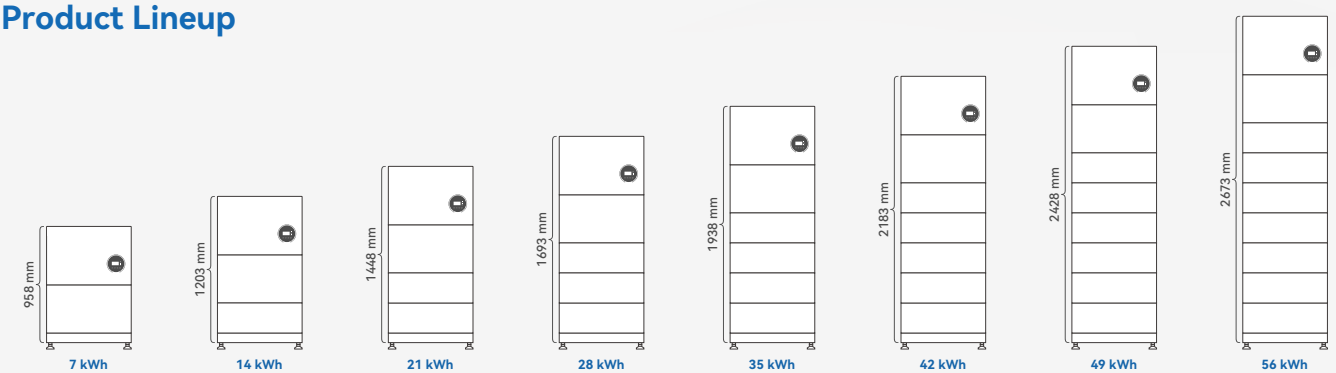
VPP
Ready

AI
Driven Optimization

<10 ms
Seamless Switching

IP66
Battery Rating

Product Lineup



PARAMETERS

Inverter Model	PC-INV-SPH3.6K	PC-INV-SPH5K	PC-INV-SPH6K	PC-INV-SPH8K	PC-INV-SPH10K
PV Side					
Max. DC Input Power (kW)	7.2	10	10	10	10
Max. DC Input Voltage (V)			580		
MPPT Voltage Range (V)			100~550		
Start-up Voltage (V)			90		
Nominal DC Input Voltage (V)			380		
Max. MPPT Current (A)			15 / 15		
Max. MPPT Short Circuit Current (A)	18.7 / 18.7	18.7 / 18.7	22.5 / 22.5	22.5 / 22.5	22.5 / 22.5
Number of MPPTs			2		
Number of Strings per MPPT			1 / 1		
Battery Side					
Battery Type			LFP		
Battery Voltage Range (V)			80~467.2		
Max. Continuous Charging / Discharging Current (A)			60 / 60		
AC Side (On-grid)					
Nominal Power (kW)	3.6	5 / 4.6 (DE)	6	8	10 / 9.99 (AU)
Nominal Apparent Power to Grid (kVA)	3.6	5 / 4.6 (DE)	6	8	10 / 9.99 (AU)
Max. Apparent Power to Grid (kVA)	3.6	5 / 4.6 (DE)	6	8.8	10 / 9.99 (AU)
Max. Apparent Power from Grid (kVA)	7.2	10	11.5	11.5	11.5
Max. Current to Grid (A)	15.7	21.7 / 20 (DE)	26	34.7	43.4 / 43 (AU)
Max. Current from Grid (A)	31.3	43.4	50	50	50
Nominal Voltage (V)			220/230, L/N/PE		
Nominal Frequency (Hz)			50 / 60		
Power Factor			~1 (Adjustable from 0.8 leading to 0.8 lagging)		
THDi			<3%		
AC Side (Backup)					
Nominal Output Apparent Power (kVA)	3.6	5	6	8	10
Max. Output Apparent Power (kVA)	3.6	5	6	8	10
Max. Output Apparent Power (Bypass) (kVA)	5.4	7.5	9	11.5	11.5
Max. Output Current (A)	15.7	21.7	26	34.7	43.4
Max. Output Current (Bypass) (A)	23.5	32.6	39.1	50	50
Nominal Output Voltage (V)			220/230, L/N/PE		
Nominal Output Frequency (Hz)			50 / 60		
THDv (@Linear Load)			<3%		
Efficiency					
Max. Efficiency			97.3%		
European Efficiency			96.2%		
Protection					
Safety Protection Feature	PV String Current Monitoring, Insulation Resistance Detection, Residual Current Monitoring, PV Reverse Polarity Protection, Battery Reverse Polarity Protection, Anti-Islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection, DC Surge Protection Type II*, AC Surge Protection Type II*, RSD (Option), AFCI, Remote Shutdown				
General Data					
Operating Temperature Range (℃)			-25~60		
Communication			WiFi / RS-485 / LAN / Bluetooth (Optional) / 4G (Optional)		
Dimensions (W × H × D mm)			690 × 478 × 240		
Weight (kg)	27	27	27	28.5	28.5
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Smart Forced Air Cooling	Smart Forced Air Cooling
Topology			Transformerless		
Ingress Protection Rating			IP65		
Grid Connection Standard	VDE-AR-N 4105, G98, G99, C10/11 ,NTS 631, RD647, UNE 217002, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2, EN 50549-1, EN 59549-10, MEA, PEA, IEC 61727, IEC 62116, NF EN50549, NCRFG, NA/EEA-NE7-CH, OVE R 25				
Safety Standard	EN/IEC 62109-1, EN/IEC 62109-2				

Battery Model	PC-BAT-07S1-H	PC-BAT-07S2-H	PC-BAT-07S3-H	PC-BAT-07S4-H	PC-BAT-07S5-H	PC-BAT-07S6-H	PC-BAT-07S7-H	PC-BAT-07S8-H
Rated Energy (kWh)	7.03	14.06	21.1	28.13	35.16	42.2	49.23	56.26
Usable Energy (kWh)	6.89	13.79	20.67	27.57	34.46	41.36	48.25	55.14
Depth of Discharge (DoD)	98%							
Battery Type	LFP							
Nominal System Voltage (V)	350							
Operating Voltage Range (V)	200~500							
Max. Input Current (System) (A)	60							
Max. Output Current (System) (A)	60							
Operating Temperature Range (℃)	Charging: -20<T<50 / Discharging: -20<T<50							
Cycle Lifetime	8000							
Cooling Method	Natural Convection							
Communication	CAN							
Configuration**	1*M	1*M+1*S	1*M+2*S	1*M+3*S	1*M+4*S	1*M+5*S	1*M+6*S	1*M+7*S
Weight (kg)	81	136	192	247	303	358	414	469
Dimensions (W × H × D mm) ***	690 × 480 × 240	690 × 725 × 240	690 × 970 × 240	690 × 1215 × 240	690 × 1460 × 240	690 × 1705 × 240	690 × 1950 × 240	690 × 2195 × 240
Ingress Protection Rating	IP66							
Safety Standard	IEC 62619, IEC/EN 62040, IEC/EN 62477, (EU)2023/1542, SA TS5398							
Transportation	UN38.3							

System	
Max. Operating Altitude (m)	≤3000 (>3000 Derating)
Relative Humidity	0~100% (Non-Condensing)
Mounting Method	Floor Stacked
Noise Emission @1 m	<30 dB
Warranty	10 Years
EMC	EN/IEC 61000-6-1, EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4

Note: Specifications are subject to change without advance notice.

* M: PC-BAT-07S-MH; S: BA-BAT-07S-SH.
PC-BAT-07S-SH is the battery module, and PC-BAT-07S-MH includes system controller and battery module.
PC-BAT-07S-MH contains the controller of the entire system, so each system must have 1 PC-BAT-07S-MH.
Ensure that each system has only 1 PC-BAT-07S-MH and a maximum of 7 PC-BAT-07S-SH.