

“Smarter Energy, Smarter Home”

Residential

Design Philosophy:

Power meets elegance. Our all-in-one home battery solution is designed to blend seamlessly into modern living—delivering clean energy, smart control and reliable backup in a compact, stylish form.



Energy Independence



Backup Power



Smart Home Integration



Quick Installation



Quiet & Compact Design



Remote Monitoring



With NETZR, every home becomes a self-sufficient energy hub - smarter, cleaner, and ready for the future.



Residential Battery System

Parameters Electrical Specifications				
	Parameter			
Cell Type	LFP 100Ah			
Nominal Voltage	51.2 V			
Rated Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Charge / Discharge Current	50 A	100 A	150 A	200 A
Operating Voltage Range	48 – 56 V			
Round-trip Efficiency	≥95%			
Mechanical Specifications				
Dimensions (W×D×H)	376×646×178 mm	752×646×178 mm	1128×646×178 mm	1504×646×178 mm
Weight	50 kg	100 kg	150 kg	200 kg
Installation Mode	Floor Stand			
System Specifications				
Cycle Life	6000 Cycles (SOH ≥70%)			
Scalability	Max. 16 in Parallel (81.92 kWh)			
Safety & Environment				
IP Rating	IP65			
Charging Temperature	0°C – 55°C			
Discharging Temperature	-20°C – 55°C			
Relative Humidity	0–95% (No Condensing)			
Max. Working Altitude	≤4000 m			
Communication	CAN / RS485			

TECHNICAL SPECIFICATION TABLE - INVERTER					
Category	Item	6K-1P	8K-1P	10K-3P	12K-3P
PV Input (DC)	Maximum DC Input Power (kW)	7,80	10,40	13,00	15,60
	PV Input Voltage Range (V)	125-500	160-800	125-500	160-800
	Number of MPPT Trackers	2	2	3	2
	PV Input Current (A)	18+18	13+13	26+26+26	26+13
	Maximum PV Isc (A)	27+27	17+17	34+34+34	34+17
AC Output (Grid / Load)	Grid Type	Single Phase	Three Phase	Single Phase	Three Phase
	Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
	Output Voltage	220/230 Vac	220/380, 230/400 Vac	220/230 Vac	220/380, 230/400 Vac
	Rated AC Output Power (kW)	6	8	10	12
	Maximum AC Output Power (kW)	6,6	8	10	12
	Peak Power (Off-grid)	2× rated power, 10 s	2× rated power, 10 s	2× rated power, 10 s	2× rated power, 10 s
	AC Output Rated Current (A)	27,3	12,6	45,5	18,25
	Max AC Output Current (A)	30	13,38	50	20,07
System & Control	MPPT Technology	Multi-MPPT	Multi-MPPT	Multi-MPPT	Multi-MPPT
	Smart Cooling	Yes	Yes	Yes	Yes
	Power Derating	>45 °C	>45 °C	>45 °C	>45 °C
Thermal & Environmental	Operating Temperature Range	-40 ~ 60 °C	-40 ~ 60 °C	-40 ~ 60 °C	-40 ~ 60 °C
	Noise Level	<50 dB	<50 dB	<50 dB	<50 dB
Safety & Protection	Protection Degree	IP65	IP65	IP65	IP65
Mechanical	Weight (kg)	46	46	46	46
	Cabinet Size (W×H×D)	646×500×178.7 mm	Same	Same	Same
	Cabinet Size (with connectors)	646×500×319.7 mm	Same	Same	Same
Monitoring & Communication	Monitoring Mode	WiFi + APP	WiFi + APP	WiFi + APP	WiFi + APP

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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in datasheets are subject to change without notice.