

RESS P20



HYBRID INVERTER FOR RESIDENTIAL ENERGY STORAGE SYSTEM (LOW VOLTAGE)



KEY FEATURES



Hybrid Power Leverage



Supports PV, grid and battery power for home use. Power priority management to maximumly reduce electricity bills and backup critical loads.



High-Level Integration



DC coupled system. Shortens power conversion flow to get low power loss.



Highly Compatible With Self-designed Battery Energy Storage Systems



Deeply communicate and coordinate between inverter and battery, enhancing the system reliability considerably.



Multi-communication Capabilities



Supports RS485, CAN2.0, WIFI, and 4G communication.



Concise Human-machine Interface



Easily operated local LCD display and app. Quick status indicators.

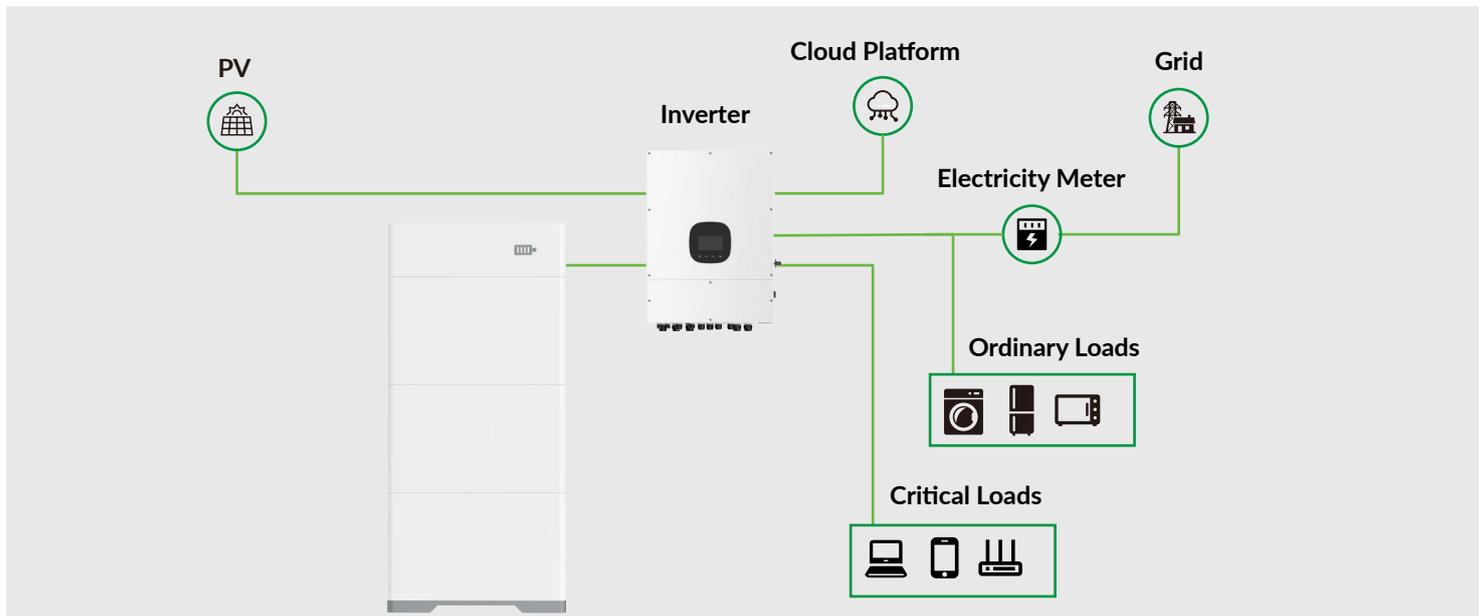


Safe Design



Multiple protection and detection function provide a full safety guarantee.

COMPATIBLE BATTERY SYSTEM



TECHNICAL DATA

Hybrid Inverter Model	RESS-1P-6K-L00-LV	RESS-1P-12K-L00-LV
Output (On Grid)		
Rated Output Active Power	6000W	10000W
Max. Output Apparent Power	6000VA	10000VA
Rated AC Voltage	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)	
AC Voltage Range	105.5 VAC - 132 VAC (per phase)	90 VAC -140 VAC (per phase)
AC Frequency Range	50 / 60Hz±5Hz	
Wiring	L1/L2-N-G	
Max. Output Current	25A (per phase)	41.7A (per phase)
Max. Input Current	40A (per phase)	60A (per phase)
Power Factor (CosΦ)	0.9 leading – 0.9 lagging	
THDI	<3%	
Output(Back Up)		
Rated Output Apparent Power	6000VA	10000VA
Rated Output Active Power	6000W	10000W
Rated Output Voltage	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)	
Rated Output Frequency	50/60Hz	
Max. Output Current	25A	41.5A
THDV(@Linear Load)	<3%	
Switch Time	<15ms	
PV String Input		
Recommended Max. PV Input Power	7500W	12000W
Rated DC Voltage	600V	
Operating Voltage Range	120V-550V	
Startup Voltage	125V	
MPPT Voltage Range	120V-550V	
Number Of MPPTs	2	
Max. Number Of PV Strings Per MPPT	2	
Max. Input Current Per MPPT	15A	18A

TECHNICAL DATA

Hybrid Inverter Model	RESS-1P-6K-L00-LV	RESS-1P-12K-L00-LV
Battery		
Battery Type	LFP (LiFePO4)	
Rated Battery Voltage	48V	
Battery Voltage Range	40-62V	
Max. Charging Current	120A	200A
Max. Discharging Current	150A	250A
Efficiency		
Max. PV Efficiency	96.5%	
Euro. PV Efficiency	95.5%	
Protection		
PV Over Voltage Protection	Yes	
String Fault Detection	Yes	
Residual Current Detection	Yes	
Insulation Detection	Yes	
Anti-Islanding Protection	Yes	
DC Switch (Battery)	Yes	
DC Reverse Polarity Protection (Both PV And Battery)	Yes	
AC/DC Surge Protection	DC Type II;AC Type III	
AC Over Voltage Protection	Yes	
AC Over Current Protection	Yes	
AC Short Circuit Protection	Yes	
Leakage Current Detection	Yes	
Ground Connection Detection	Yes	
Function		
Battery Charging From Grid	Yes	
General		
Dimensions W*D*H	515*700*215.5mm	515*715*215.5mm
Net Weight	41Kg	46.5Kg
Installation	Wall-Mounted	
Operating Temperature Range	-25°C~+60°C, (Derating Above 45°C)	
Storage Temperature Range	-15°C~60°C	
Max. Operating Altitude	1000M (No Derating, Over 1000M The Power Derating Is 1 % Every 100M)	
Relative Humidity Range	0~95% (No Condensation)	
Ingress Protection Rating	IP65	
Cooling	Force Air Cooling	
Noise	<50DB	
Communication	RS 485, RS232, USB, Dry Contact, WIFI	
Display	LCD/APP	
Warranty	5 Years	
Certification		
Certification	UL1741, IEEE1547, FCC (Only WP LV 6K), EN 61000-6-2, EN 61000-6-4 (Only WP LV 12K)	



LinkedIn

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