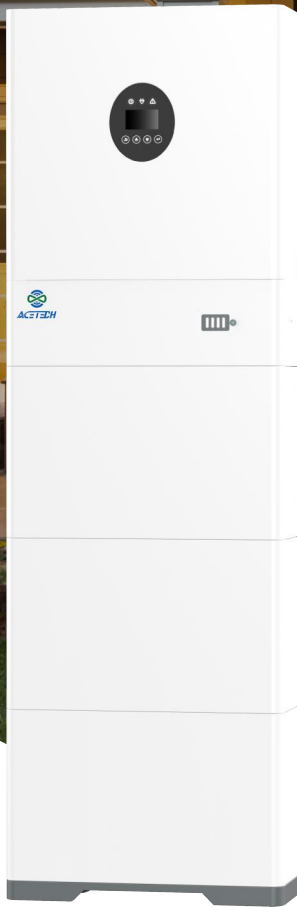


RESS PE20



ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM (LOW VOLTAGE)



Hybrid Power Leverage

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

High Level Integration

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

All In One Design

Improve installation convenience, enhancing aesthetics.

Battery Modular Design

Modular design: one storage system can support 1 to 3 battery units.

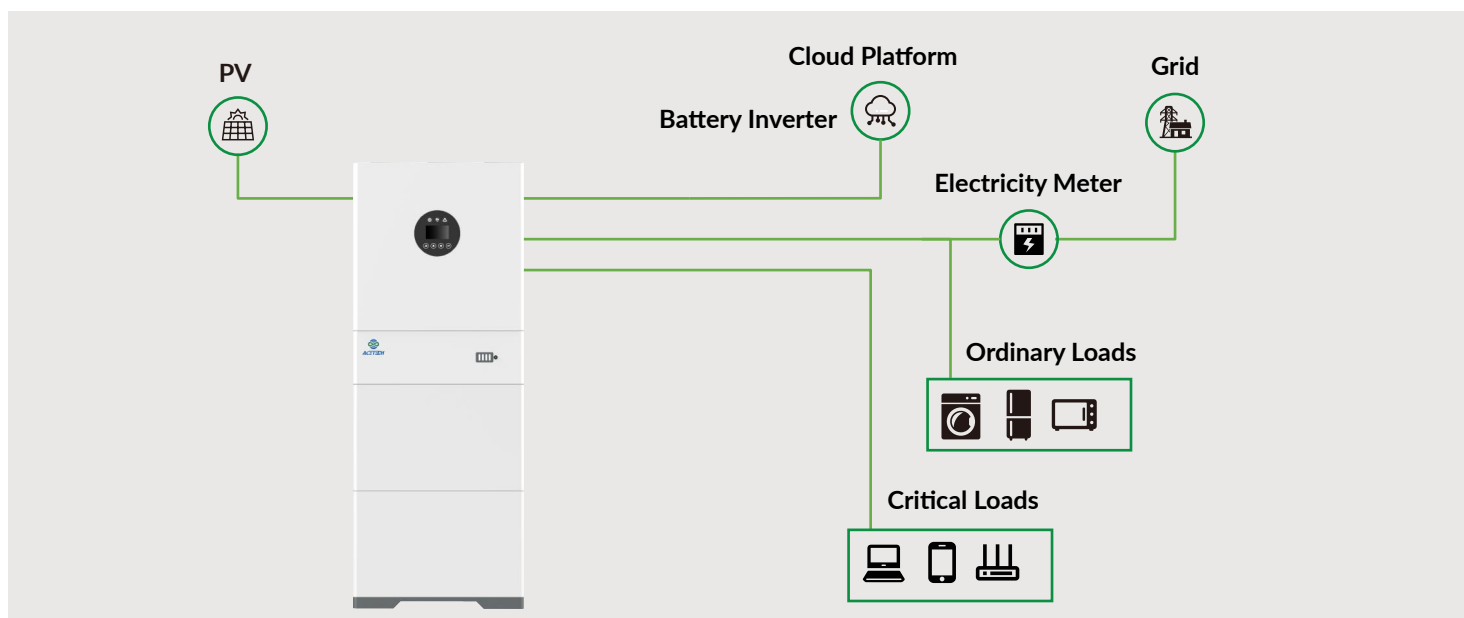
Quick Installation

Quick insert design to save installation time and cost.

IP65 Rating

IP65 water- and dust-proof, supports both indoor and outdoor installation.

COMPATIBLE BATTERY SYSTEM



TECHNICAL DATA

Hybrid Inverter Model	RESS-1P-3.6K-L00	RESS-1P-6K-L00	RESS-3P-10K-L00
Output (On Grid)			
Rated Output Active Power	3680W	6000W	10000W
Max. Output Apparent Power	7360VA	7360VA	11000VA
Rated AC Voltage		230V	
AC Voltage Range		150~280V	
AC Frequency Range		50 / 60Hz ± 5Hz	
Wiring		L-N-G	
Power Factor (CosΦ)		0.8 leading – 0.8 lagging	
THDI		<3%	
Output(Back Up)			
Rated Output Apparent Power	4000VA	5000VA	10000VA
Rated Output Active Power	3680W	4600W	9200W
Rated Output Voltage		230V	
Rated Output Frequency		50/60Hz	
THDV(@Linear Load)		<3%	
Switch Time		<20ms	

TECHNICAL DATA

Hybrid Inverter Model	RESS-1P-3.6K-L00	RESS-1P-6K-L00	RESS-3P-10K-L00
PV String Input			
Recommended Max. PV input Power	4800W	7500W	20000W
Rated DC Voltage		400V	
Max. Voltage Range		80V~580V	
Startup Voltage		150V	
MPPT Voltage Range		80V-560V	
Number of MPPTs		2	
Max. Number of PV strings per MPPT		1	
Max. Input Current per MPPT		15A	
Max. Short-Circuit Current per MPPT	18A		20A
Battery			
Battery Type		LFP (LiFePO4)	
Battery System Capacity	6.6KWH	13.2KWH	19.8KWH
Rated Battery Voltage		51.2V	
Numbers of Battery Modules	1	2	3
Rated Discharging Current	91A	182A	273A
Rated Charging Current	65A	130A	195A
Cycle Life		≥6000 cycles @ 75% EOL, 25°C, 100% DoD	
Efficiency			
Max. PV Efficiency		97.6%	
Euro. PV Efficiency		97.0%	
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	
Remote On/Off		Yes	
OTA		Yes	
General			
Dimensions W*H*D	725*1179*250mm	725*1619*250mm	725*2449*250mm
Net Weight	99kg	159kg	237kg
Installation		Wall-mounted or Floor type	
Operating Temperature Range		-10°C~+50°C, (derating above 40°C)	
Max. Operating Altitude		2000m (no derating)	
Relative Humidity Range		0~95% (No Condensation)	
Ingress Protection Rating		IP65	
Cooling		Natural convection	
Noise		<35dB	<55dB
Communication		RS485/CAN2.0/WIFI/(4G option)	
Display		LCD/APP	
Warranty		PCS: 5 years (expand to 10 years); BAT: 10 years	
Certification			
Certification		IEC62619/UN38.3 (Battery) IEC/EN 62109-1&-2(PCS)	



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