

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 maximumly reduce electricity bills 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.

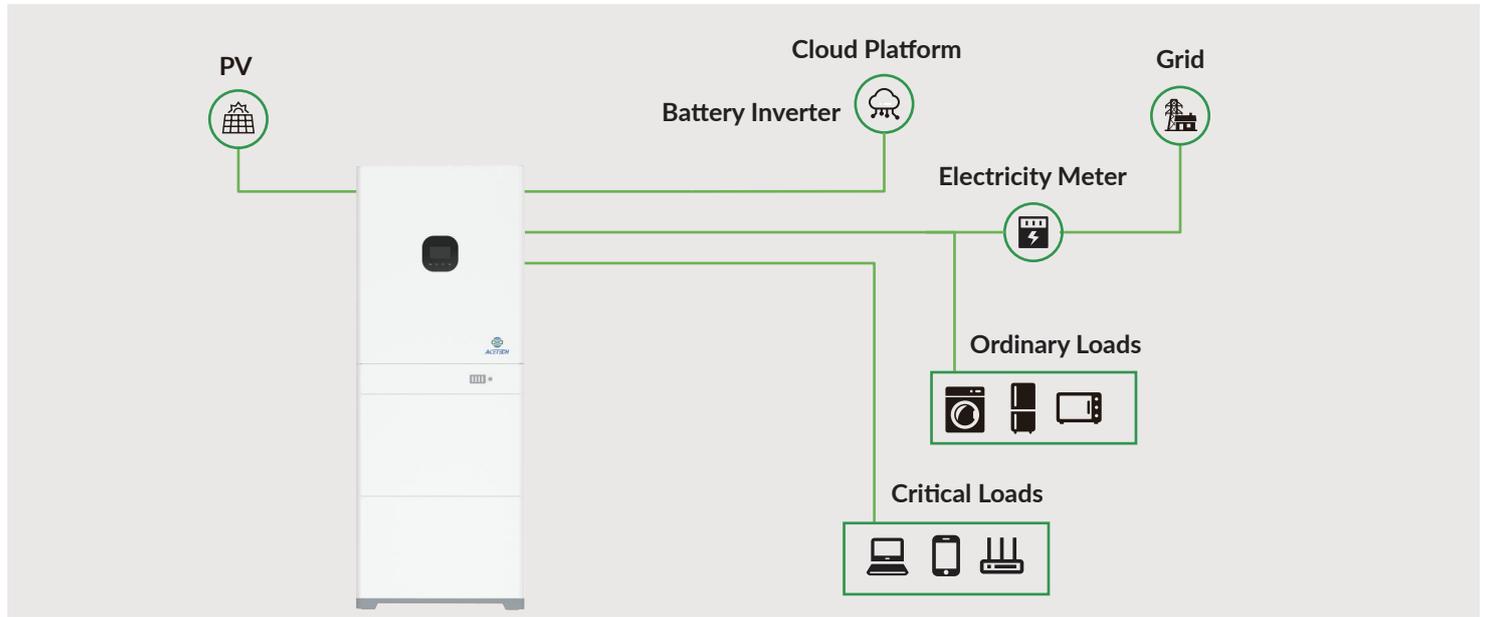
Quick Installation

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



All-in-One RESS Model	RESS-1A-13.2-L0-6K	RESS-3A-19.8-L0-12K
Output (On Grid)		
Rated Output Active Power	6000W	10000W
Max. Output Apparent Power	6000VA	10000VA
Rated AC Voltage	120VAC(P-N), 208VAC(P-P), 240VAC(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	120VAC(P-N), 208VAC(P-P), 240VAC(P-P)	
Rated Output Frequency	50/60Hz	
Thdv (@linear Load)	<3%	
Switch Time	<15ms	

TECHNICAL DATA

All-in-One RESS Model	RESS-1A-13.2-L0-6K	RESS-3A-19.8-L0-12K
PV String Input		
Recommended Max. PV Input Power	7500W	12000W
Rated DC Voltage	600V	
Max. 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
Battery		
Battery Type	LFP(LiFePO4)	
Battery System Energy	13.2KWH	19.8KWH
Usable Energy (kWh)[1]	12.5KWH	18.8KWH
Rated Battery Voltage	51.2V	
Number of Battery Modules	2	3
Recommend Charging/Discharging Current	120A	200A
Battery Max Charging/Discharging Current	150A	250A
Cycle Life	>=7000 cycles	
Efficiency		
Max. PV Efficiency	96.50%	
Euro. PV Efficiency	95.50%	
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*1915*250mm	725*2355*250mm
Net Weight	185kg	249kg
Installation	Wall-mounted or Floor-mounted	
Operating Temperature Range	Charge :-10°C~50°C Discharge:-10°C~55°C[2]	
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	Inverter: 5 years (expand to 10 years); Battery:10 years	
Certification		
Certification	Battery: IEC62619/CE/UL1973/UL9540A/UN38.3 Inverter: UL1741, IEEEE1547,FCC (6K); EN 61000-6-2,EN 61000-6-4 (12K)	

[1]Test Conditions - temperature 25°C, at the beginning of life, cell charge voltage between 2.8~3.5V, 0.5C.

[2]25°C ambient temperature, recommended charging/discharging current.



LinkedIn

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