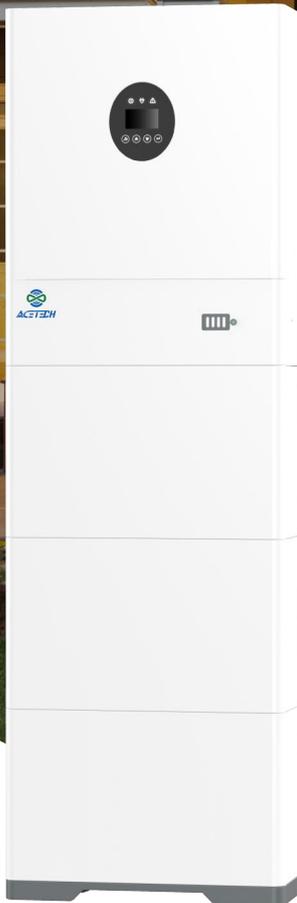


RESS PE20



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.

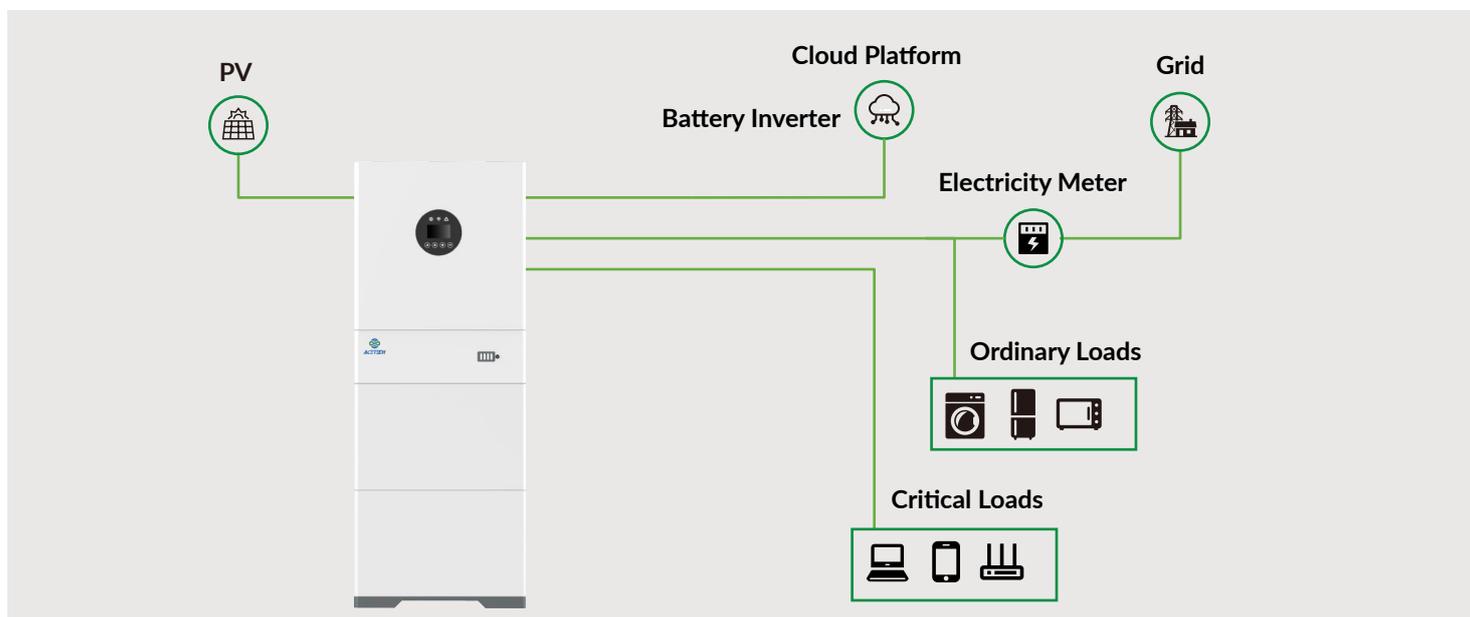
Quick Installation

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



All-in-One RESS Model	RESS-1A-6.6-L0-3.6K	RESS-1A-13.2-L0-6K	RESS-3A-19.8-L0-10K
Output (On Grid)			
Rated Output Active Power	3680W	6000W	10000W
Max. Output Apparent Power	7360VA	7360VA	11000VA
Rated AC Voltage	230V		400V
AC Voltage Range	150~280V		320~480V
AC Frequency Range		50 / 60Hz±5Hz	
Wiring	L-N-G		L1/L2/L3-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		400V
Rated Output Frequency		50/60Hz	
THDV(@Linear Load)		<3%	
Switch Time		<20ms	

TECHNICAL DATA

All-in-One RESS Model	RESS-1A-6.6-L0-3.6K	RESS-1A-13.2-L0-6K	RESS-3A-19.8-L0-10K
PV String Input			
Recommended Max. PV Input Power	4800W	7500W	20000W
Rated DC Voltage	400V		720V
Max. Voltage Range	80V~580V	80V~580V	140~1100V
Startup Voltage	150V		200V
MPPT Voltage Range	80V~560V		140~1100V
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 Energy	6.6kWh	13.2kWh	19.8kWh
Usable Energy (kWh)[1]	6.2	12.5	18.8
Rated Battery Voltage		51.2V	
Number of Battery Modules	1	2	3
Recommend Charging/Discharging Current	65A	130A	195A
Battery Max Charging/Discharging Current	130A	208A	273A
Battery Max. Output Power	5.8KW	9.3KW	12.2KW
Cycle Life		>=7000 cycles	
Efficiency			
Max. PV Efficiency		97.60%	
Euro. PV Efficiency		97.00%	
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*1215*250mm	725*1655*250mm	725*2485*250mm
Net Weight	111kg	171kg	251kg
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		IEC62619/CE/UL1973/UL9540A/UN38.3 (Battery) IEC/EN 62109-1&-2 (Inverter)	

[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

SHENZHEN ACE BATTERY CO., LTD.

Tel: +86-755-8887 8567

E-mail: sales@acebattery.com

Headquarters: FL29, Hanking Financial Center, No.9968 Shennan Avenue, Nanshan District, Shenzhen, China

Factory Add: Block B, BAK Industrial Park, Kuipeng Rd., Dapeng, Shenzhen, China

Web: www.acebattery.com