

RESS PE20



ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM (HIGH 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 2 to 5 battery units.

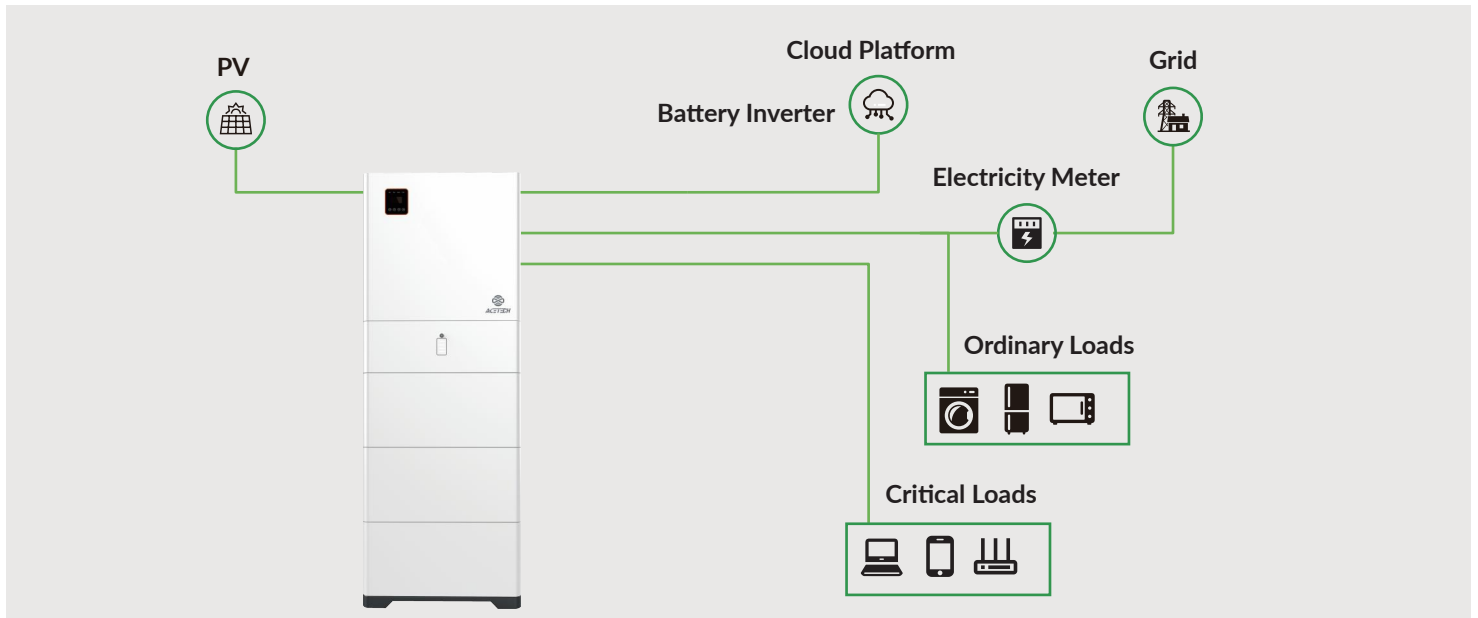
Quick Installation

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-3A-11.4-H1-6K	RESS-3A-15.2-H1-8K	RESS-3A-19-H1-10K
Output (On Grid)			
Rated Output Active Power	6000W	8000W	10000W
Max. Output Apparent Power	6600VA	8800VA	11000VA
Rated AC Voltage	380 V / 400 V / 415 V		
AC Frequency Range	50 / 60Hz±5Hz		
Wiring	L1/L2/L3-N-G		
Power Factor (cosΦ)	0.8 leading – 0.8 lagging		
THDI	<3%		
Output(Back Up)			
Rated Output Apparent Power	6600VA	8800VA	11000VA
Rated Output Active Power	6000W	8000W	10000W
Rated Output Voltage	380 V / 400 V / 415 V		
Rated Output Frequency	50/60Hz		
THDV(@Linear Load)	<2%		
Switch Time	<20ms		

TECHNICAL DATA

Hybrid Inverter Model	RESS-3A-11.4-H1-6K	RESS-3A-15.2-H1-8K	RESS-3A-19-H1-10K
PV String Input			
Recommended Max. PV input Power	9000W	12000W	15000W
Rated DC Voltage		700V	
Operating Voltage Range		125V~1000V	
Startup Voltage		125V	
MPPT Voltage Range		180V-850V	
Number of MPPTs		2	
Max. Number of PV Strings per MPPT		1	
Max. Input Current per MPPT		16A	
Max. Short-Circuit Current per MPPT		25A	
Battery			
Battery Type		LFP (LiFePO4)	
Battery System Capacity	11.4KWH	15.2KWH	19KWH
Rated Battery Voltage	307.2V	409.6V	512V
Numbers of Battery Modules	3	4	5
Rated Discharging Current		25.9A	
Rated Charging Current		18.5A	
Cycle Life		>=6000 cycles @ 75% EOL,25°C,100% DoD	
Efficiency			
Max. PV Efficiency		97.9%	98.2%
Euro. PV Efficiency		97.2%	97.5%
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		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	625*1855*250mm	625* 2170* 250mm	625* 2485* 250mm
Net Weight	194kg	242kg	290kg
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	
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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