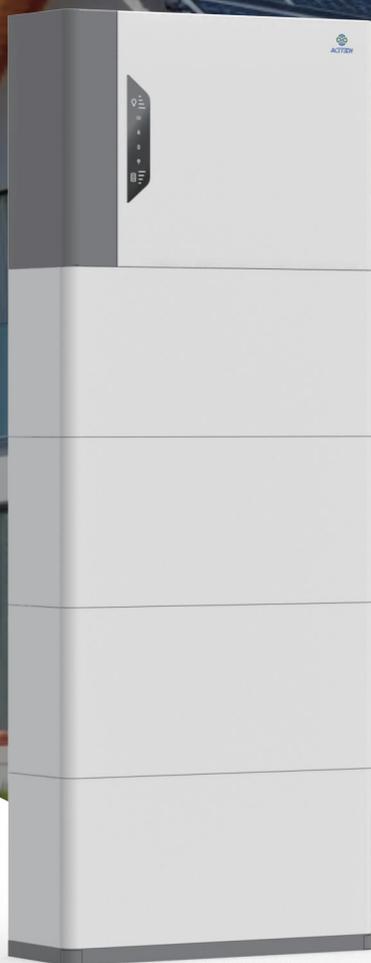


RESS PE20



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



Highly Integrated Design

Integrated design of PCS, BMS, and EMS (3S) to enhance system stability.



High Power Density

Maximum 12kW all-in-one system.



Generator Compatibility

Supports generator input and auto remote start for generators.



Long Lifetime

The system can support over 7000 cycles of lifetime.

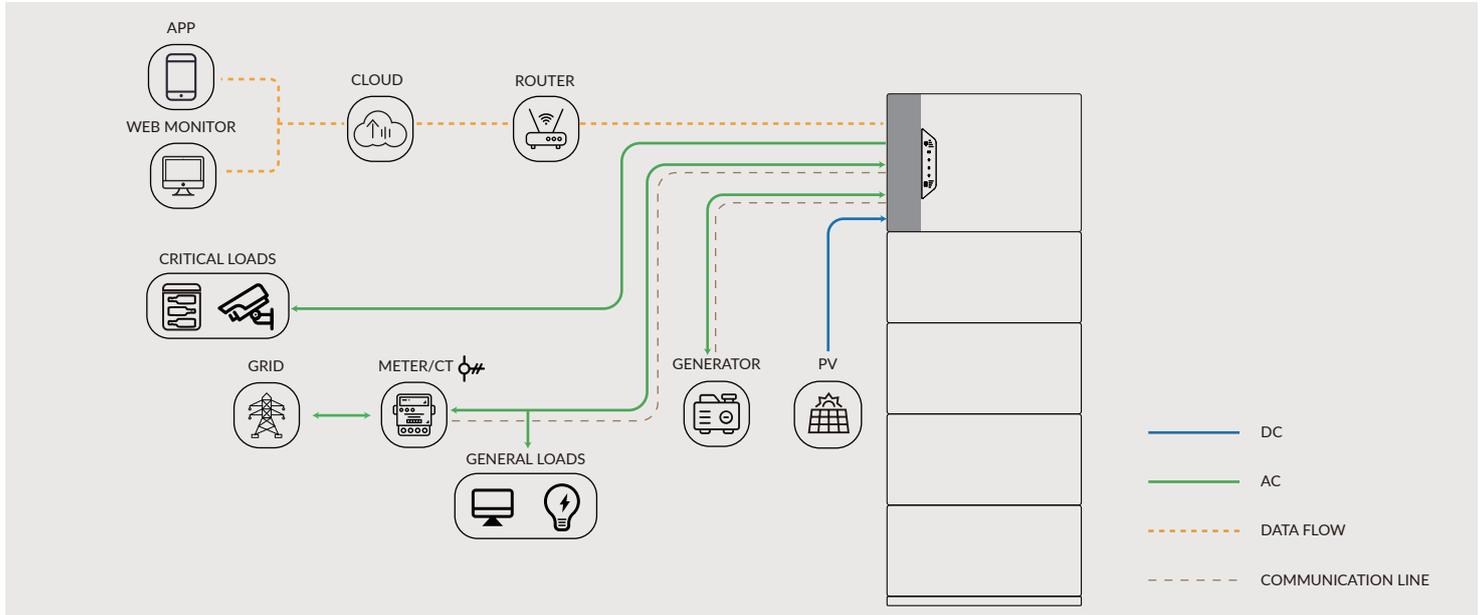


Quick Installation

Quick-insert design for both power module and battery module to reduce installation time and cost.

KEY FEATURES

CONNECTION



PRODUCT HIGHLIGHTS

- High Power Density

Delivers up to 12kW/22.7kWh in a compact all-in-one unit with a footprint of only 0.15m².

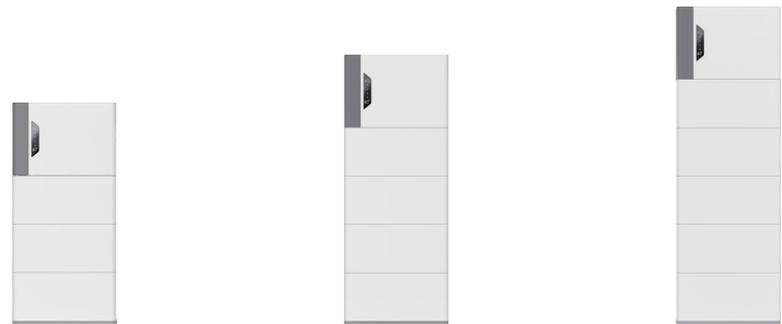
- Fully Integrated Design

PCS, BMS and EMS are fully integrated.

- User-Friendly Operation and Maintenance

Features a multi-LED display, extensive communication support, and OTA functionality for easy software updates.

TECHNICAL DATA



All-in-one RESS Model	RESS-3A-7.6-H2-8K RESS-3A-11.4-H2-8K RESS-3A-15.2-H2-8K RESS-3A-19-H2-8K RESS-3A-22.7-H2-8K	RESS-3A-7.6-H2-10K RESS-3A-11.4-H2-10K RESS-3A-15.2-H2-10K RESS-3A-19-H2-10K RESS-3A-22.7-H2-10K	RESS-3A-7.6-H2-12K RESS-3A-11.4-H2-12K RESS-3A-15.2-H2-12K RESS-3A-19-H2-12K RESS-3A-22.7-H2-12K
Grid AC Input and AC Output			
Rated Output Apparent Power	8000VA	10000VA	12000VA
Rated Input Apparent Power	12000VA	14000VA	16000VA
Rated Output Current	11.6 A ac	14.5 A ac	17.4 A ac
Rated Input Current	17.4 A ac	20.3 A ac	23.2 A ac
Rated AC Voltage		380 V / 400 V / 415 V	
AC Rated Frequency		50 Hz/60 Hz	
Wiring		L1/L2/L3-N-PE	
Power Factor (cosφ)		0.8 leading – 0.8 lagging	
THDI		<3%	
Output(Back Up)			
Rated Output Apparent Power (Back Up)	8000VA	10000VA	12000VA
Backup Segment Output		2 groups	
THDV(@Linear Load)		<3%	
Switch Time		10ms	

TECHNICAL DATA

All-in-one RESS Model	RESS-3A-7.6-H2-8K RESS-3A-11.4-H2-8K RESS-3A-15.2-H2-8K RESS-3A-19-H2-8K RESS-3A-22.7-H2-8K	RESS-3A-7.6-H2-10K RESS-3A-11.4-H2-10K RESS-3A-15.2-H2-10K RESS-3A-19-H2-10K RESS-3A-22.7-H2-10K	RESS-3A-7.6-H2-12K RESS-3A-11.4-H2-12K RESS-3A-15.2-H2-12K RESS-3A-19-H2-12K RESS-3A-22.7-H2-12K
PV String Input			
Recommended Max. PV Input Power	12000W	15000W	18000W
MAX.PV Input Voltage		1000V	
Startup Voltage		150V	
MPPT Voltage Range		150V-950V	
Number of MPPTs		2	
Max. Number of PV Strings per MPPT		2	
Max. Input Current per MPPT		16A	
Max. Short-Circuit Current per MPPT		24A	
Reverse Connect Protection		Yes	
Efficiency			
MPPT Efficiency	99.90%	99.90%	99.90%
Euro Efficiency	97.50%	97.50%	97.50%
MAX. Efficiency	98.00%	98.00%	98.00%
Battery			
Battery Type	Lithium-ion battery		
System Energy	7.6kWh/11.4kWh/15.2kWh/19kWh/22.7kWh		
Usable Energy [1]	7.2kWh/10.8kWh/14.4kWh/18kWh/21.7kWh		
Rated Battery Voltage	204.8V/307.2V/409.6V/512V/614.4V		
Number of Battery Modules	2/3/4/5/6		
Recommend Charging/Discharging Current	18.5A		
Max Charging/Discharging Current	37A		
Cycle Life	>=7000 cycles [2]		
Battery Auto Wake Up [3]	Yes		
Function			
CT/ Meter (Option)	Yes		
OTA	Yes		
Diesel Generator Support	Yes		
Safety Protection			
Protection Function	PV String reverse polarity protection, DC short circuit current protection, DC over current protection, DC over voltage protection, AC output short circuit current protection, AC output over current protection, AC over voltage protection, Anti-island protection, Leakage current detection, Ground connection detection		
AFCI	Optional		
Rapid DC Voltage Cut Off	Optional		
Over Voltage Category	AC III ; DC II		
General			
Dimensions (W*H*D) (mm)	670*(1135/1450/1765/2080/2395)*230		
Net Weight	117kg/155kg/193kg/231kg/269kg		
Installation	Floor-mounted		
Operating Temperature Range	Charge :-10°C~50°C Discharge:-10°C~55°C		
Max. Operating Altitude	<4000m(>2000m power Derating)		
Relative Humidity Range	0~95% (No Condensation)		
Ingress Protection Rating	IP66		
Climatic Category	4K4H		
Cooling	Natural convection		
Noise	<35dB		
Communication	RS485/WLAN/Bluetooth/DRY/DRM/Meter, LAN/4G(Optional)		
Display	LED indicators / APP/ Web		
Warranty	10 years		
Standard			
Safety	IEC/EN 62109-1&-2; IEC62619; CE; UN38.3		
EMC	IEC/EN 61000-6-1/-2/-3/-4; IEC/EN 61000-3-2/-3/-11/-12; IEC/EN 62920		
Grid Connection Standards	EN 50549-1:2019/AC:2019; VDE-AR-N 4105:2018; DIN VDE V 0124-100:2020; EN50549-1+EN50438; NA/EEA-NE7 – CH 2020; EIFS 2018: 2; OVE Directive R 25:2020; TOR Erzeuger Type A V1.2		

[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.

[3]Battery can be auto waked up if inverter has power. No need turn on battery additional.



LinkedIn

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