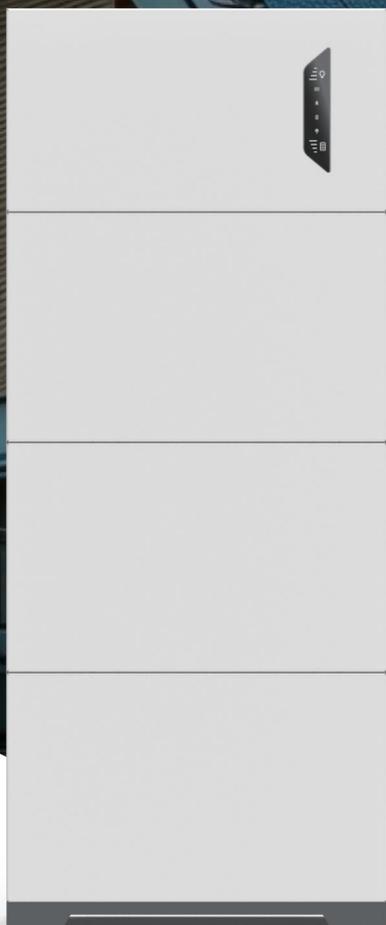


RESS PE20



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



Highly Integrated Design

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



High Power Density

Each battery module has a capacity of 6.6 kWh.



High PV Power Support

Supports new generation of high-power PV panels.



Long Lifetime

The system can support over 7000 cycles of lifetime.

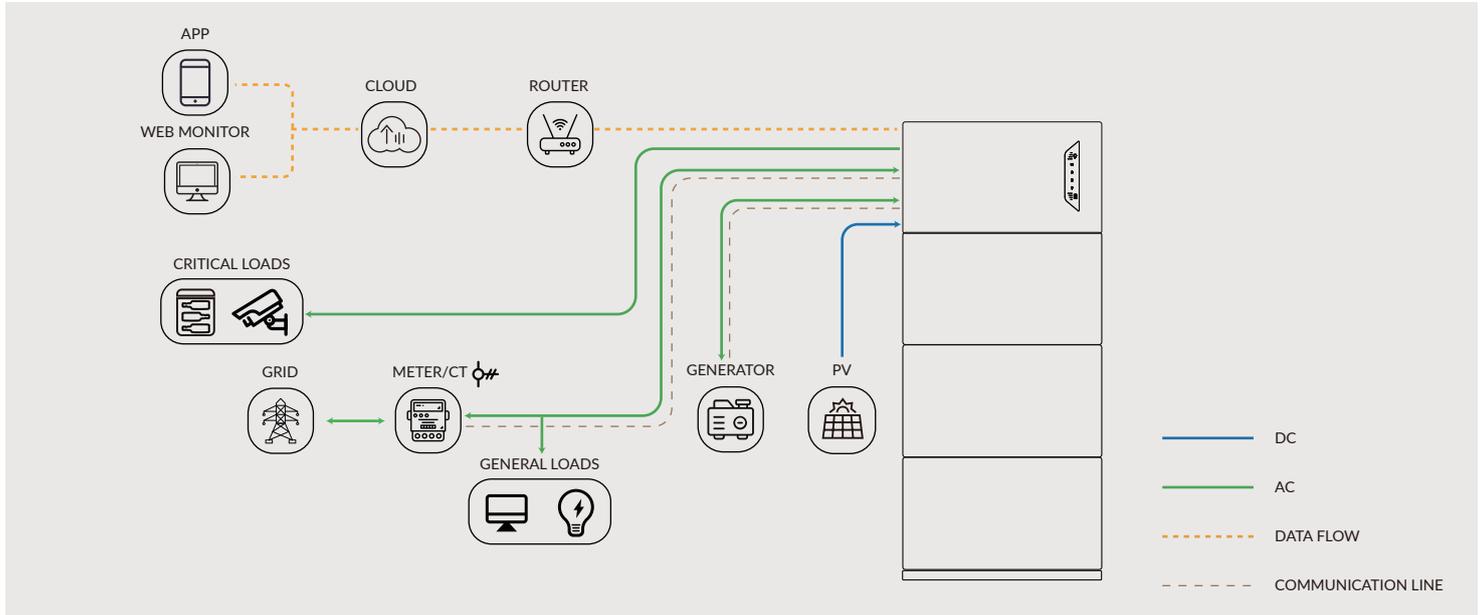


Quick Installation

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

KEY FEATURES

CONNECTION



TECHNICAL DATA



All-in-One RESS Model	RESS-1A-6.6-L2-3.68K	RESS-1A-13.2-L2-3.68K	RESS-1A-19.8-L2-3.68K	RESS-1A-6.6-L2-5K	RESS-1A-13.2-L2-5K	RESS-1A-19.8-L2-5K	RESS-1A-6.6-L2-6K	RESS-1A-13.2-L2-6K	RESS-1A-19.8-L2-6K
All-in-One PCS Model	RESS-1P-3.68K-L02	RESS-1P-3.68K-L02	RESS-1P-3.68K-L02	RESS-1P-5K-L02	RESS-1P-5K-L02	RESS-1P-5K-L02	RESS-1P-6K-L02	RESS-1P-6K-L02	RESS-1P-6K-L02
Grid AC input and AC Output									
Rated Output Apparent Power	3680VA			5000VA[1]			6000VA		
Rated Output Active Power	3680W			5000W[1]			6000W		
MAX Output Apparent Power	3680VA			5000VA			6600VA		
Rated Input Apparent Power	7368VA			9200VA			9200VA		
Rated Output Current	16.0 A ac			21.7 A ac			26.1 A ac		
Rated Input Current	16.0 A ac			21.7 A ac			26.1 A ac		
MAX Output Current	16.7 A ac			22.7 A ac			27.3 A ac		
MAX Input Current	32.0 A ac			40.0A ac			40.0A ac		
Rated AC Voltage				220/230/240 a.c.,					
Output Voltage Range (V)				180~260 a.c.,					
AC Rated Frequency				50 Hz/60Hz					
Wiring				L+N+PE					
Power Factor (cosΦ)				0.8 leading – 0.8 lagging					
THDI				<3%					
Backup (EPS)									
MAX. Output Apparent Power	3680VA			5000VA			6000VA		
MAX. Output Current	16.0 A ac			21.7 A ac			26.1 A ac		
Rated Output Active Power	3680W			5000W			6000W		
Rated Output Voltage				230 Vac					
Rated Output Frequency				50/60Hz					
THDV(@Linear Load)				<3%					
Switch Time				10ms					

TECHNICAL DATA

All-in-one RESS Model	RESS-1A-6.6-L2-3.68K	RESS-1A-13.2-L2-3.68K	RESS-1A-19.8-L2-3.68K	RESS-1A-6.6-L2-5K	RESS-1A-13.2-L2-5K	RESS-1A-19.8-L2-5K	RESS-1A-6.6-L2-6K	RESS-1A-13.2-L2-6K	RESS-1A-19.8-L2-6K
All-in-one PCS Model	RESS-1P-3.68K-L02	RESS-1P-3.68K-L02	RESS-1P-3.68K-L02	RESS-1P-5K-L02	RESS-1P-5K-L02	RESS-1P-5K-L02	RESS-1P-6K-L02	RESS-1P-6K-L02	RESS-1P-6K-L02
PV String Input									
Recommended max. PV Input Power	7200W			10000W			10000W		
MAX.PV Input Voltage				500Vdc					
Startup Voltage				120Vdc					
Nominal Input Voltage (V)				360Vdc					
MPPT Voltage Range				120-480Vdc					
MPPT Voltage Range at Nominal Power (V)	200-425Vdc						250-425Vdc		
Number of MPPTs				2					
Max. Number of PV Strings per MPPT				1					
Max. Input Current per MPPT				20A					
Max. Short-circuit Current per MPPT				25A					
Reverse Connect Protection				Yes					
Efficiency									
MPPT Efficiency	99.90%			99.90%			99.90%		
Euro Efficiency	96.30%			96.30%			96.30%		
MAX. Efficiency	97.00%			97.00%			97.00%		
Battery									
Battery Type	Lithium-ion battery								
System Energy	6.6kWh	13.2kWh	19.8kWh	6.6kWh	13.2kWh	19.8kWh	6.6kWh	13.2kWh	19.8kWh
Usable Energy [2]	6.27kWh	13.49kWh	18.81kWh	6.27kWh	13.49kWh	18.81kWh	6.27kWh	13.49kWh	18.81kWh
Battery Module Model	RESS-BM-051130-L0								
Rated Battery Voltage	51.2V								
Recommend Charging/Discharging Current	65A/module								
Number of Battery Modules	1	2	3	1	2	3	1	2	3
Max Charging/Discharging Current	80A	80A	80A	120A	120A	120A	125A	125A	125A
Max Charging Power	3680W			5000W			6000W		
Max Discharging Power	3900W			5400W			6400W		
Cycle Life	>=7000 cycles [3]								
Battery Auto Wakeup	Yes								
Function									
CT/ Meter (Option)	Yes								
OTA	Yes								
Safety Protection									
PV String Reverse Polarity Protection	Yes								
DC Short Circuit Current Protection	Yes								
DC Over Current Protection	Yes								
DC Over Voltage Protection	Yes								
AC Output Short Circuit Current Protection	Yes								
AC Output Over Current Protection	Yes								
AC Over Voltage Protection	Yes								
Anti-island Protection	Yes								
Leakage Current Detection	Yes								
Ground Connection Detection	Yes								
Overvoltage Category	AC III ; DC II								
General									
Dimensions (W*H*D) (mm)	725*880*230	725*1320*230	725*1760*230	725*880*230	725*1320*230	725*1760*230	725*880*230	725*1320*230	725*1760*230
Net Weight	88	146	204	88	146	204	88	146	204
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	<40dB								
Communication	RS485/WLAN/Bluetooth/DRY/DRM/Meter, LAN/4G(Optional)								
Display	LED indicators / APP/ Web								
Warranty	Inverter: 5 years (expand to 10 years); Battery: 10 years								
Standard									
Safety	IEC/EN 62109-1&-2 IEC62619/CE/UN38.3								
EMC	IEC/EN 61000-6-1/-2 IEC/EN 61000-6-3/-4 IEC/EN 61000-3-2/-12 IEC/EN 61000-3-3/-11 IEC/EN 62920								
Grid	EN 50549-1:2019/AC:2019/RFG:2016; CEI 0-21:2022; Arret du 9 juin 2020; G98/G99/G100; UNE 217001/217001/NTS V2.1/RD 244; VDE-AR-N 4105:2018-11(VDE V 0124-100:2020-06);								

[1]4600VA/4600W for VDE-AR-N4105 & NRS 097-2-1.

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

[3]25°C ambient temperature, recommended charging/discharging current.



LinkedIn

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