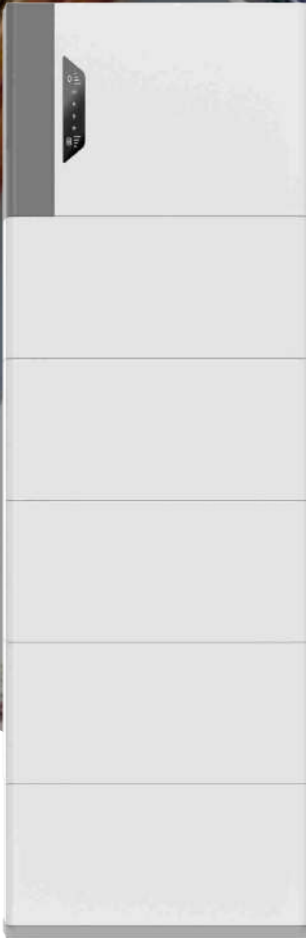




POPPER POWER®

# WALLERGY

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



MADE IN AUSTRIA by



### 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

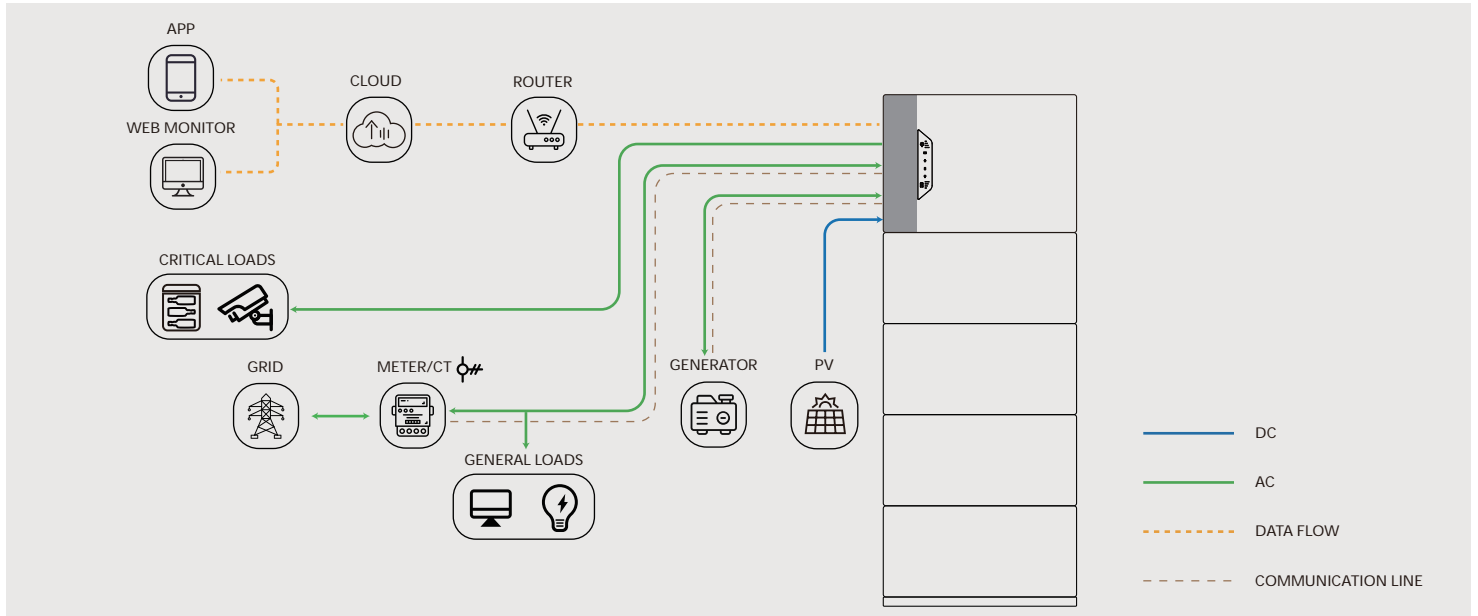
The system can support over 7000 cycles of lifetime.



### Quick Installation

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

# CONNECTION



## PRODUCT HIGHLIGHTS

- **High Power Density**

Delivers up to 12kW/22.7kWh in a compact all-in-one unit with a footprint of only 0.15m<sup>2</sup>.

- **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

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<b>PV String Input</b>			
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	
<b>Efficiency</b>			
MPPT Efficiency	99.90%	99.90%	99.90%
Euro Efficiency	97.50%	97.50%	97.50%
MAX. Efficiency	98.00%	98.00%	98.00%
<b>Battery</b>			
Battery Type		Lithium-ion battery	
System Energy		7.6kWh/11.4kWh/15.2kWh/19kWh/22.8kWh	
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	
<b>Function</b>			
CT/ Meter (Option)		Yes	
OTA		Yes	
Diesel Generator Support		Yes	
<b>Safety Protection</b>			
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	
<b>General</b>			
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		IP65	
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	
<b>Standard</b>			
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.