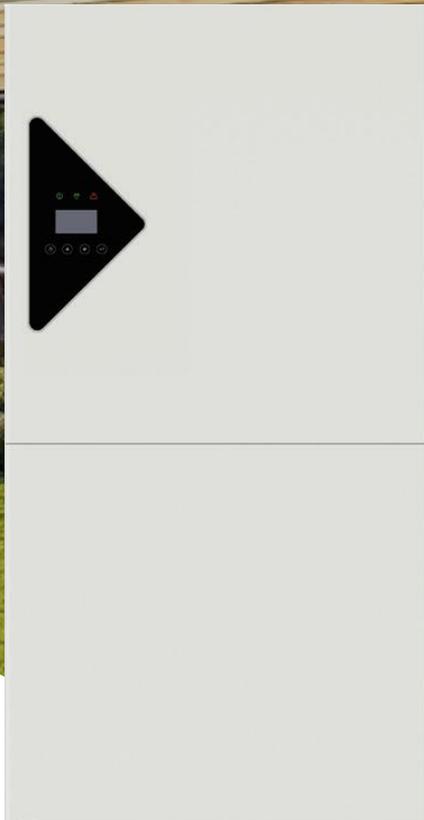


RESS P20

HYBRID INVERTER FOR RESIDENTIAL ENERGY STORAGE SYSTEM (LOW VOLTAGE)



KEY FEATURES



Save Your Energy Bill



Optimized Time-of-use Profile

10,000 Cycles Lifespan

VPP Ready



Whole-Home Energy Solution



Supports On-grid and Off-grid Switching

AC-Coupled or DC-Coupled System

Optional Generator Connection



Comprehensive Safety

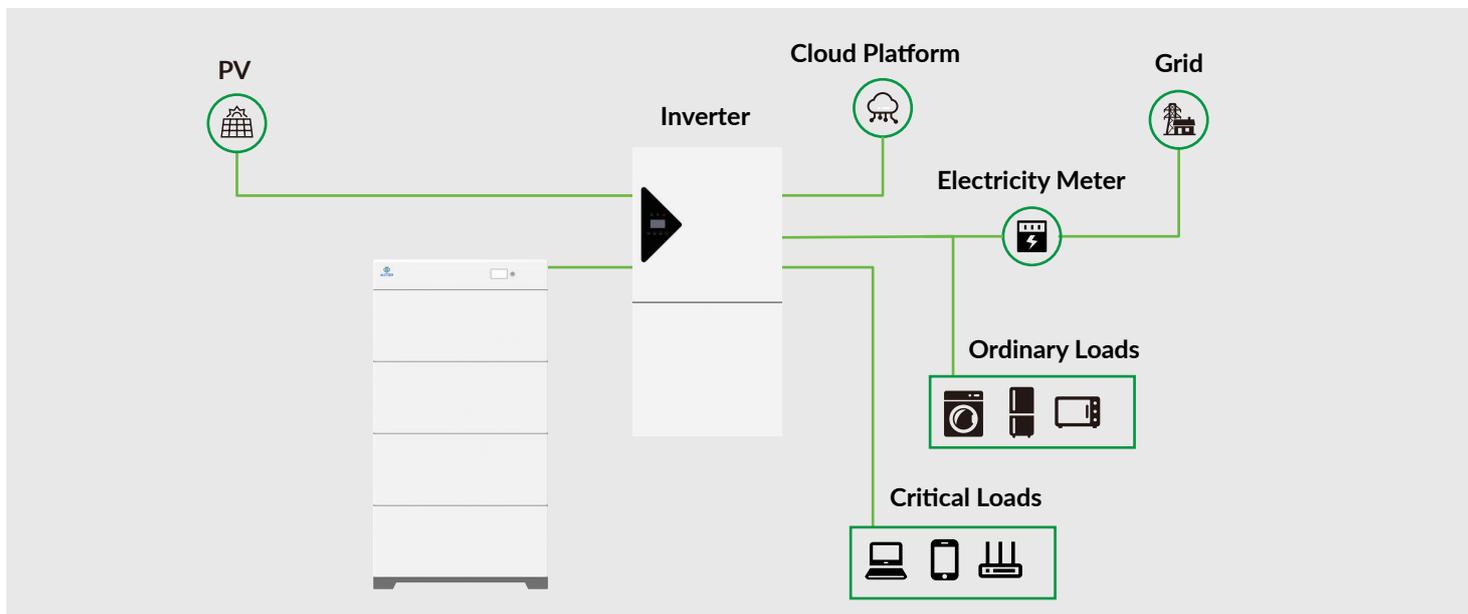


Alarm and Protection

Online Monitoring

AFCI & RSD Compliance

COMPATIBLE BATTERY SYSTEM



TECHNICAL DATA

System Model	RESS-2P-8K-L0	RESS-2P-10K-L0	RESS-2P-12K-L0	RESS-2P-15K-L0
Hybrid Inverter Model	E8KD	E10KD	E12KD	E15KD
PV Input				
Recommended Max. PV Array Input Power @STC (kWp)	16	18	22	25
Max. PV Input Voltage (Vdc)		500		
MPPT Voltage Range (Vdc)		120 ~ 425		
Start Voltage (V)		120		
Nominal Voltage (Vdc)		380		
MPPT Voltage Range With Full Load (V)	200 ~ 425	240 ~ 425	200 ~ 425	240 ~ 425
Number of MPPT Tracker	2	2	3	3
Max. Input Current (A)	30*2	30*2	30*3	30*3
Max. Short-circuit Current (A)	40*2	40*2	40*3	40*3
AC Output (On Grid)				
Nominal (L-L) Output Voltage (V)		120 / 240 Vac and 120 / 208 Vac		
Output Voltage Range (V)		160 ~ 300 Vac (L~L)		
Output Frequency (Hz)		50 / 60 (±5) , adjustable		
Nominal Output Current (A)	33.4	41.7	50	62.5
Max. Output Power (kVA)	8	10	12	15
Nominal Output Power (kW)	8	10	12	15
Output Connection		Split phase, 2/3 phase, single phase, transformerless		
Power Factor (cosΦ)		0.8 leading - 0.8 lagging adjustable		
THDi		< 3%		
AC Output (Backup Off-Grid)				
Rated Output Current		150 Aa.c.		
Max. Output Current		200 Aa.c.		
Rated Continuous Output Power (W)		36,000		
Max. Output Power (W)		48,000		
Backup Load Overcurrent Protection		200 Aa.c.		

TECHNICAL DATA

System Model	RESS-2P-8K-L0	RESS-2P-10K-L0	RESS-2P-12K-L0	RESS-2P-15K-L0
Hybrid Inverter Model	E8KD	E10KD	E12KD	E15KD
AC Output (Backup Off-Grid)				
Nominal (L-L) Output Voltage (V)	240 / 208			
Nominal Output Frequency (Hz)	50 / 60 (±0.2%)			
Nominal Output Current (A)	33.4 (RMS)	41.7 (RMS)	50 (RMS)	50 (RMS)
Nominal Output Power (Daytime) (kW)	8	10	12	12
Max. Output Power (Daytime) (kVA)	8	10	12	12
Nominal Output Power (Nighttime) (kW)	8	10	11.4	11.4
Max. Output Power (Nighttime) (kVA)	8	10	12	12
THDv	< 2% (linear load)			
On / Off Grid Switching Time	< 20 ms			
Over Current Protection (A)	200 / pole			
Battery Input				
Battery Type	Lithium battery			
Battery Nominal Voltage (V)	51.2			
Battery Voltage Range (V)	44.8 ~ 56			
Depth of Discharge	≥6000 cycles @ 75% EOL, 25°C, 95% DoD			
Max. Discharging Current (A)	100 / 150 / 210 / 240 / 270			
Max. Charging Current (A)	100 / 150 / 210 / 240 / 270			
Max. Discharging Power (W)	2500 / 5000 / 7500 / 10000 / 12500			
Max. Charging Power (W)	2500 / 5000 / 7500 / 10000 / 12500			
Battery Switch	Single - pole DC switch (2*200 A / pole)			
Battery System Energy (kWh)	5 / 10 / 15 / 20 / 25			
Efficiency				
CEC Efficiency (V)	97% (@240) / 96% (@208)			
MPPT Efficiency	>99.9%			
General Specifications				
Cooling Type	Intelligent air cooling			
Communication Port	RS-485 / CAN 2.0 / WIFI			
Protection Class	Class II			
Operating Temperature Range	-20°C~+55°C (rated power@40°C)			
Storage Humidity Range	0 ~ 95% (no condensation)			
Operating Altitude	2000 m			
Overvoltage Type	II (DC side); OVC IV			
IP Class	IP66 / 4X			
Weight (kg)	73			
Dimensions (W x H x D) (mm)	540 x 1050 x 240			
Protection & Certifications				

Certifications
 Electronics Certified Safety by CSA Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6; CSA C22.2 No. 107.1-16
 Grid Sell Back - UL 1741 - 2010/2018; IEEE 1547a - 2003/2014; FCC 15 Class B; UL 1741; UL1741 CRD
 UL 1741SB; CA Rule21; HECO Rule 14 H; UL 1699B; CSA C22.2 No.292-18; CSA C22.2 No.330-17

Protection	PV DC Disconnect Switch - NEC 240.15 Ground Fault Detection - NEC 690.5 PV Rapid Shutdown Control - NEC 690.12 PV Arc Fault Detection - NEC 690.11	PV Input Lightning Protection PV String Input Reverse Polarity Protection AC Output Breakers Battery Breaker / Disconnect Surge Protection
-------------------	---	--



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