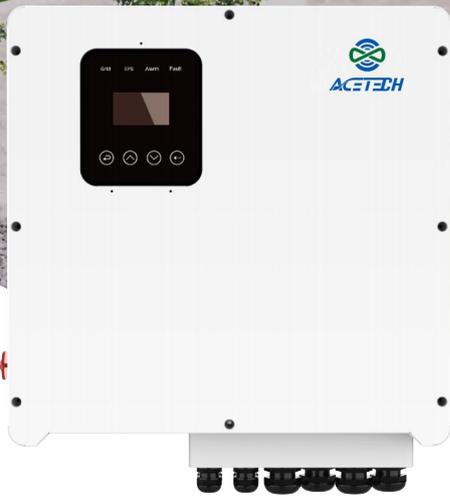




ACETECH

RESS P20

HYBRID INVERTER FOR RESIDENTIAL ENERGY STORAGE SYSTEM (HIGH VOLTAGE)



KEY FEATURES



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.



Highly Compatible With Self-designed Battery Energy Storage Systems

Deeply communicate and coordinate between inverter and battery, enhancing the system reliability considerably.



Multi-communication Capabilities

Supports RS485, CAN2.0, WIFI, and 4G communication.



Compatible With High Voltage Modular Battery System

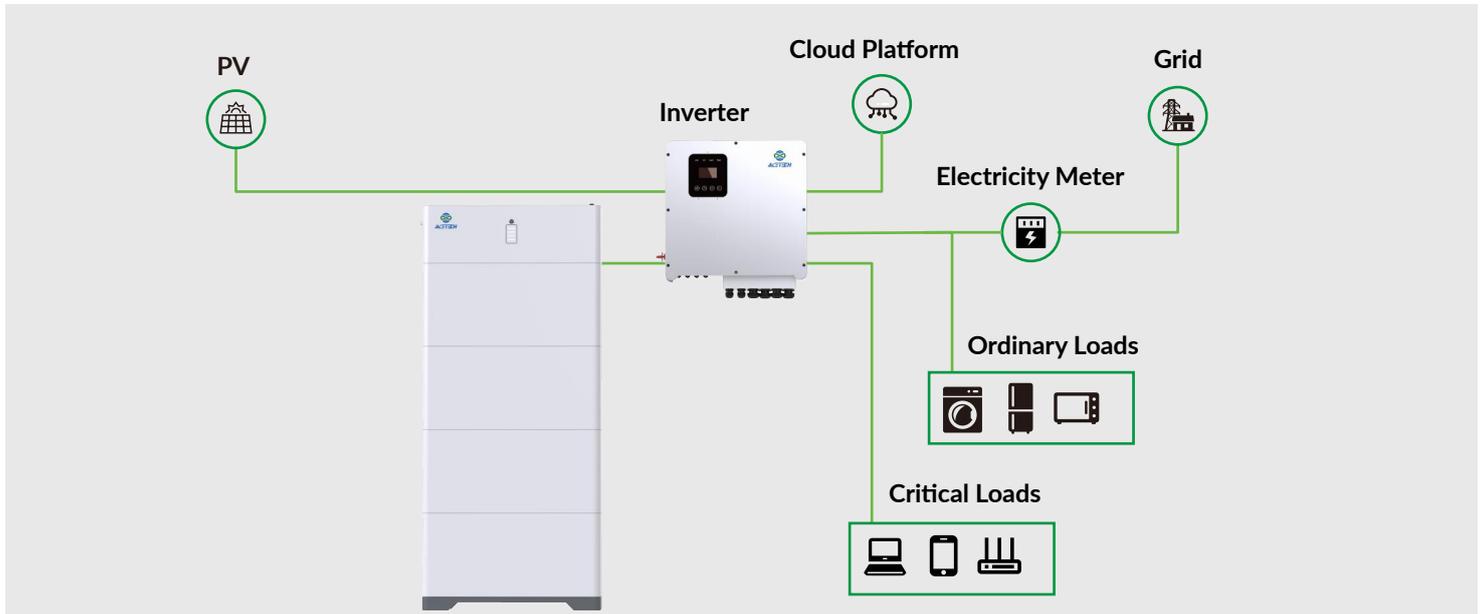
The system will improve system efficiency and reduce the power loss.



Safe Design

Multiple protection and detection function provide a full safety guarantee.

COMPATIBLE BATTERY SYSTEM



TECHNICAL DATA

Hybrid Inverter Model	RESS-3P-6K-H00	RESS-3P-8K-H00	RESS-3P-10K-H00	RESS-3P-12K-H00	RESS-3P-15K-H00
Output (On Grid)					
Rated Output Active Power	6000W	8000W	10000W	12000W	15000W
Max. Output Apparent Power	6600VA	8800VA	11000VA	13200VA	16500VA
Rated AC Voltage	380 V / 400 V / 415 V				
AC Voltage Range	360~440V				
AC Frequency Range	50 / 60Hz ±5Hz				
Wiring	L1/L2/L3-N-G				
Max. Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
Max. Input Current	19A	25.5A	31.9A	38.2A	47.6A
Power Factor (cosΦ)	0.8 leading – 0.8 lagging				
THDI	<3%				
Output (Back up)					
Rated Output Apparent Power	6600VA	8800VA	11000VA	13200VA	16500VA
Rated Output Active Power	6000W	8000W	10000W	12000W	15000W
Rated Output Voltage	380 V / 400 V / 415 V				
Rated Output Frequency	50/60Hz				
Max. Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
THDV (@Linear Load)	<2%				
Switch Time	<20ms				
PV String Input					
Recommended max. PV Input Power	9000W	12000W	15000W	18000W	22500W
Rated DC Voltage	700V				
Operating Voltage Range	125V~1000V				
Startup Voltage	235V				
MPPT Voltage Range	180V~850V				
Number of MPPTs	2				
Max. Number of PV Strings per MPPT	1		2		
Max. Input Current per MPPT	13A		20A		
Max. Short-Circuit Current per MPPT	16A		30A		

TECHNICAL DATA

Hybrid Inverter Model	RESS-3P-6K-H00	RESS-3P-8K-H00	RESS-3P-10K-H00	RESS-3P-12K-H00	RESS-3P-15K-H00
Battery					
Battery Type	LFP (LiFePO4)				
Rated Battery Voltage	204.8V/307.2V/409.6V/512V				
Battery Voltage Range	125-600V				
Max. Charging Current	50A				
Max. Discharging Current	50A				
Efficiency					
Max. PV Efficiency	97.9%		98.2%		98.5%
Euro. PV Efficiency	97.2%		97.5%		97.6%
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	530*560*220mm				
Net Weight	30kg	31kg		33kg	34kg
Installation	Wall-mounted				
Operating Temperature Range	-25°C~+60°C, (derating above 40°C)				
Storage Temperature Range	-25°C~70°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	5years (expand to 10 years)				
Certification					
Certification	IEC/EN62109-1:2010, IEC/EN62109-2:2011, IEC/EN 61000-6-1/2/3/4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011, EN 50549-1:2019/AC:2019, EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPIREE:2021, VDE-AR-N 4105:2018/DIN VDE V 0124-100(VDE V 0124-100):2020, NRS 097-2-1:2017 Edition 2.1, G98/G99/1-6:2022, UNE217001:2020 /UNE217002:2020/ NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, EN50549-1:2019/RFG:2016				
Compatible Battery System					
Compatible Battery System	RESS-BS-7.6-H1; RESS-BS-11.4-H1; RESS-BS-15.2-H1; RESS-BS-19-H1				



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