



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

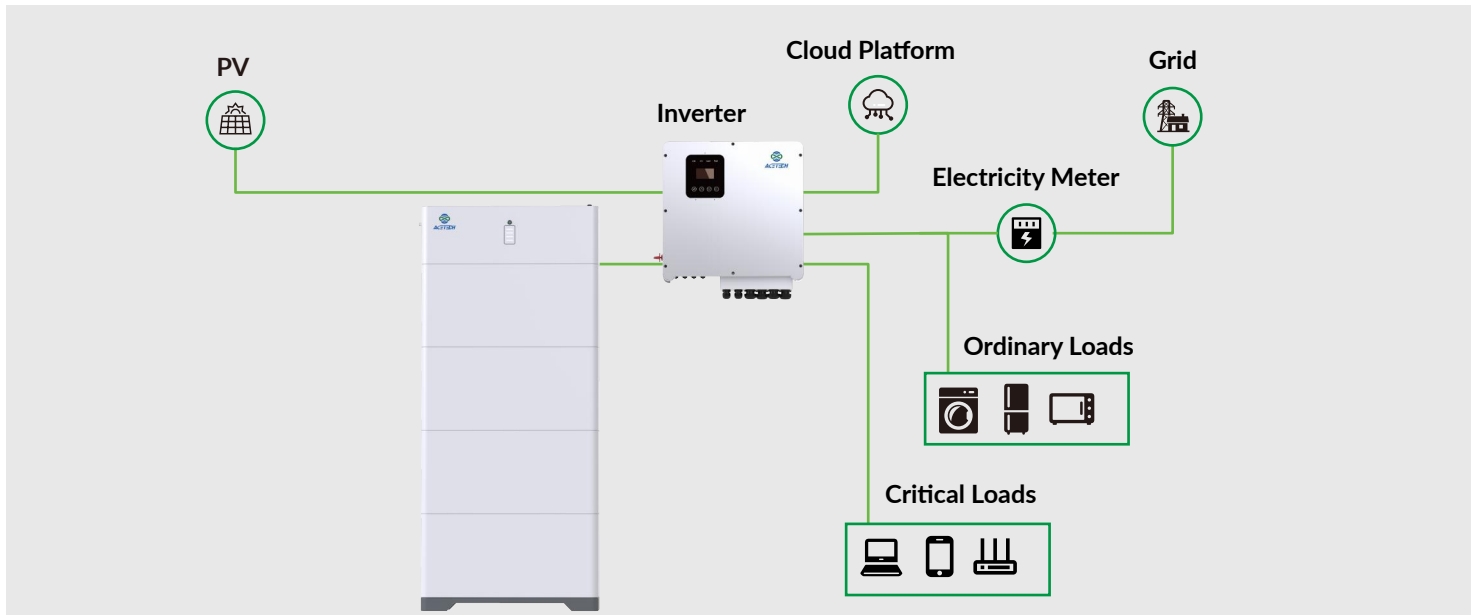
The system will improve system efficiency and reduce the power loss.



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 | 125V | | | | |
| MPPT Voltage Range | 180V~850V | | | | |
| Number of MPPTs | 2 | | | | |
| Max. Number of PV Strings per MPPT | 1 | | 2 | | |
| Max. Input Current per MPPT | 16A | | 20A | | |
| Max. Short-Circuit Current per MPPT | 25A | | 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 | | | | |



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ACE GROUP

Tel: +86-755-8887 8567

E-mail: sales@acebattery.com

Headquarters: 29F, Hanking Financial Center, No.9968 Shennan Avenue, Nanshan District, Shenzhen, China

Factory: Block B, BAK Industrial Park, Kuipeng Rd., Dapeng, Shenzhen, China

Web: www.acebattery.com