



12-20kW Commercial Energy Storage Solutions (Outdoor)

Battery capacity 20-60kWh, switch to off-grid mode without interruption, stable operation.



Modular design



Plug in installation



Thunder protection



► Modular design

Modular design, strong expansibility, plug-in installation, integrated EMS smart energy management system;

► Smart switch

Off grid operation, supporting emergency power supply, supporting three-phase imbalance, and seamless switching;

► Wide voltage input range

Ultra-wide PV voltage range 180V-950V, battery ultra-wide voltage range 180V-700V;

► Safe and reliable

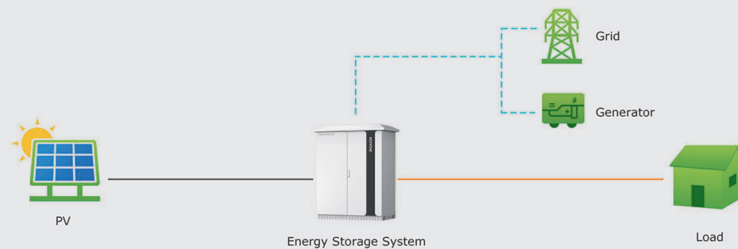
Intelligent air cooling, low temperature rise, long life time, built-in anti-lightning protection, high precision leakage protection;

► Smart and simple

Easy installation, supporting countercurrent function, supporting real-time remote monitoring and data checking;

► High power efficiency

Less output power reduction under high temperature, with efficiency improved, max PV input power up to 1.3 X rated power.



| Model | | YT12kw-60kwh-O | YT15kw-60kwh-O | YT17kw-60kwh-O | YT20kw-60kwh-O |
|--|--------------------------------------|---------------------------------|---|----------------|----------------|
| Efficiency | MPPT.Efficiency | 99.90% | 99.90% | 99.90% | 99.90% |
| | Max.Efficiency | >97.80% | >97.80% | >97.80% | >97.80% |
| | Battery.Efficiency | >98.10% | >98.10% | >98.10% | >98.10% |
| Battery Pack | Model | KY-51.2V100AH | KY-51.2V100AH | KY-51.2V100AH | KY-51.2V100AH |
| | Serial Number | 12 | 12 | 12 | 12 |
| | Cell Type | Li-ion(LFP) | Li-ion(LFP) | Li-ion(LFP) | Li-ion(LFP) |
| | Battery Capacity(Ah) | 100 | 100 | 100 | 100 |
| | Storage Capacity(KWh) | 61.4KWh | 61.4KWh | 61.4KWh | 61.4KWh |
| | Available Capacity(KWh) | 55.3KWh | 55.3KWh | 55.3KWh | 55.3KWh |
| | Voltage Range(V) | 537~690Vdc | 537~690Vdc | 537~690Vdc | 537~690Vdc |
| | Cycle Life | 7000 | 7000 | 7000 | 7000 |
| PV Input | Max. PV input power(W) | 15600 | 19500 | 22100 | 26000 |
| | Max. PV input voltage(V) | 1000 | 1000 | 1000 | 1000 |
| | MPPT Operation Voltage Range(V) | 180-950 | 180-950 | 180-950 | 180-950 |
| | Number of MPPT/PV Strings | 2/1 | 2/2 | 2/2 | 2/2 |
| | Max. PV input current(A) | 12.5/12.5 | 12.5/23 | 12.5/23 | 23/23 |
| | Short-circuit current of PV input(A) | 15 | 15/30 | 15/30 | 30/30 |
| Battery Port | Operating Voltage Range(V) | 180-700 | 180-700 | 180-700 | 180-700 |
| | Max Charge/Discharge Current(A) | 50/50 | 50/50 | 50/50 | 50/50 |
| | Communication With BMS | CAN | CAN | CAN | CAN |
| AC Input and Output | Rated Power(W) | 12000 | 15000 | 17000 | 20000 |
| | Max. Apparent AC Power(VA) | 12000 | 15000 | 17000 | 20000 |
| | Nominal AC Voltage(Vac) | 380,3L/N/PE | 380,3L/N/PE | 380,3L/N/PE | 380,3L/N/PE |
| | AC Power Frequency(Hz) | 50/60 | 50/60 | 50/60 | 50/60 |
| | Max. AC Output Current(A) | 18 | 22 | 25 | 31 |
| | Power Factor Range | | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| | OutputTHDi(@Nominal Output) | <3% | <3% | <3% | <3% |
| Off-Grid AC Output (Back-up AC Output) | Rated Output Power(W) | 12000 | 15000 | 17000 | 20000 |
| | Max. Apparent AC Output Power(VA) | 12000 | 15000 | 17000 | 20000 |
| | Nominal AC Output Voltage(Vac) | 380,3L/N/PE | 380,3L/N/PE | 380,3L/N/PE | 380,3L/N/PE |
| | AC Power Frequency(Hz) | 50/60 | 50/60 | 50/60 | 50/60 |
| | Max. AC Output Current(A) | 18 | 22 | 25 | 31 |
| General Data | Operating Temperature Range | -25°C ... +60°C(>45°C derating) | | | |
| | Operating Altitude(m) | <3000 | | | |
| | Noise(dB) | <40 | | | |
| | Topology | Transformerless | | | |
| | Cooling Method | Intelligent Fan | | | |
| | Ingress Protection Rating | IP54 | | | |
| | Relative Humidity | 0-95%, no condensation | | | |
| | Display | LCD | | | |
| | Communication With Portal | RS485 (WiFi/GPRS Optional) | | | |
| | Communication With Meter | RS485 | | | |
| Dimensions (W*D*H)(mm) | 1260*735*1610 | | | | |
| Certification | Safety | IEC62109-1/-2 | | | |
| | EMC | EN61000-6-1/-2/-3,IEC61000 | | | |
| | On-Grid standard | AS4777.2,NRS097-2-1:2017 | | | |
| | Transportation | UN38.3 | | | |