



# Three-Phase Residential

Energy Storage System

Hybrid Inverter 6 - 12 kW

LFP Battery 10 - 30 kWh



Up to 150%  
PV input



Easy installation  
Plug and Play



110% 3-Phase  
uninterrupted output



Off-grid 1.5 times  
overload operation



Multiple charging  
discharging times  
setting



IP65  
Rating



Load monitoring  
accuracy 10W.



Intelligent insulation  
detection function



120-800V ultra-wide  
battery voltage range



Anti-back flow  
function



Remote  
upgrade



Inverter 5 years  
Battery 10 years  
warranty

# Three-Phase High Voltage ESS

|                                           |                                                                                                                                       |              |              |                             |                              |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-----------------------------|------------------------------|
| IP rating                                 | IP65                                                                                                                                  |              |              |                             |                              |
| Cooling                                   | Natural cooling                                                                                                                       |              |              |                             |                              |
| Warranty                                  | Inverter 5 years, Battery 10 years                                                                                                    |              |              |                             |                              |
| HYBRID INVERTER                           | AE6K-H-T                                                                                                                              | AE8K-H-T     | AE10K-H-T    | AE12K-H-T                   |                              |
| Coupling                                  | Hybrid                                                                                                                                |              |              |                             |                              |
| Max. PV Input Power (kW)                  | 15                                                                                                                                    |              |              |                             |                              |
| Max. DC Voltage (V)                       | 1000                                                                                                                                  |              |              |                             |                              |
| MPPT Voltage Range (V)                    | 180~950                                                                                                                               |              |              |                             |                              |
| Max. DC Current (A)                       | 15+15                                                                                                                                 |              |              |                             |                              |
| Max. Charge/Discharge Power (kW)          | 6/6                                                                                                                                   | 8/8          | 10/10        | 12/12                       |                              |
| Rated Battery Voltage (V)                 | 200                                                                                                                                   | 266          | 333          | 400                         |                              |
| Battery Voltage Range (V)                 | 120~875                                                                                                                               |              |              |                             |                              |
| Max. Battery Charge/Discharge Current (A) | 30/30                                                                                                                                 |              |              |                             |                              |
| Rated Grid Voltage (V)                    | 3L/ N/ PE, 220/ 380, 230/ 400                                                                                                         |              |              |                             |                              |
| Rated Current (A)                         | 9.2/8.7                                                                                                                               | 12.2/11.6    | 15.2/14.5    | 18.2/17.4                   |                              |
| Rated Grid Frequency (Hz)                 | 50/60                                                                                                                                 |              |              |                             |                              |
| Rated Grid Input Active Power (kW)        | 9                                                                                                                                     | 12           | 15           | 18                          |                              |
| Max. Grid Input Current (A)               | 13.6                                                                                                                                  | 18.2         | 22.7         | 27.2                        |                              |
| Rated Grid Output Active Power (kW)       | 6                                                                                                                                     | 8            | 10           | 12                          |                              |
| Rated EPS Output Apparent Power (kVA)     | 6                                                                                                                                     | 8            | 10           | 12                          |                              |
| Max. EPS Output Current (A)               | 10.1                                                                                                                                  | 13.5         | 16.8         | 20.1                        |                              |
| Max. Efficiency                           | 97.6%                                                                                                                                 |              |              |                             |                              |
| Power Factor Range                        | 0.8ind-0.8cap                                                                                                                         |              |              |                             |                              |
| THD                                       | <3%                                                                                                                                   |              |              |                             |                              |
| Operating Temperature Range               | -25-60°C (>45°C Derating)                                                                                                             |              |              |                             |                              |
| Communication Interface                   | WIFI/RS485                                                                                                                            |              |              |                             |                              |
| Product Dimension (W × H × D) / Weight    | 550×575×240 mm / 29 kg                                                                                                                |              |              |                             |                              |
| Certification Standards                   | Safety: IEC62109-1, IEC62109-2, EMC: IEC61000-6-1, IEC61000-6-3                                                                       |              |              |                             |                              |
| Certificate                               | TUV CE                                                                                                                                |              |              |                             |                              |
| Grid-Connection Standards                 | Germany: VDE-AR-N 4105/11.18, Europe: EN 50549-1:2019, EN 50549-10:2022<br>South Africa: NRS 097-2-1:2017 Ed.2.1, Sweden: EIFS 2018:2 |              |              |                             |                              |
| BESS                                      | AESCB10                                                                                                                               | AESCB15      | AESCB20      | AESCB25                     | AESCB30                      |
| BCU Dimension (WxHxD)/Weight              | 550x200x252 mm/9.5 kg                                                                                                                 |              |              |                             |                              |
| Number of batteries                       | 2                                                                                                                                     | 3            | 4            | 5                           | 6                            |
| Nominal capacity(kWh)                     | 10.2                                                                                                                                  | 15.3         | 20.4         | 25.5                        | 30.6                         |
| Nominal Voltage(V)                        | 204.8                                                                                                                                 | 307.2        | 409.6        | 512                         | 614.4                        |
| Standard Charge Voltage(V)                | 227.2                                                                                                                                 | 340.8        | 358.4        | 568                         | 681.6                        |
| Discharge Cut-off Voltage(V)              | 179.2                                                                                                                                 | 268.8        | 454.4        | 448                         | 537.6                        |
| Dimension(mm)                             | 550x252x960                                                                                                                           | 550x252x1300 | 550x252x1640 | 550x252x960<br>550x252x1100 | 550x252x1300<br>550x252x1100 |
| Weight(kg)                                | 116.5                                                                                                                                 | 168.5        | 220.5        | 116.5 / 159                 | 168.5 / 159                  |
| BATTERY PACK                              | AES5.1-M                                                                                                                              |              |              |                             |                              |
| Rated Voltage (V)                         | 102.4                                                                                                                                 |              |              |                             |                              |
| Operating Voltage Range (V)               | 89.6~113.6                                                                                                                            |              |              |                             |                              |
| Rated Capacity (Ah)                       | 50                                                                                                                                    |              |              |                             |                              |
| Energy Capacity (kWh)                     | 5.12                                                                                                                                  |              |              |                             |                              |
| Battery Material                          | LFP                                                                                                                                   |              |              |                             |                              |
| Recommned Charge/Discharge Current        | 25A/25A (25°C)                                                                                                                        |              |              |                             |                              |
| Max. Charge/Discharge Current             | 32A/32A (25°C)                                                                                                                        |              |              |                             |                              |
| Charge/Discharge Efficiency               | >95%                                                                                                                                  |              |              |                             |                              |
| Cycle Life                                | >6000*Cycles                                                                                                                          |              |              |                             |                              |
| Ambient Temperature                       | -20°C~53°C                                                                                                                            |              |              |                             |                              |
| Charging/Discharging Temperature          | 0°C~53°C/-18°C~53°C                                                                                                                   |              |              |                             |                              |
| Communication                             | CAN, RS485                                                                                                                            |              |              |                             |                              |
| IP rating                                 | IP65                                                                                                                                  |              |              |                             |                              |
| Scalability                               | Up to 6 modules                                                                                                                       |              |              |                             |                              |
| Battery Dimension (WxHxD)/Weight          | 550x340x252 mm/52 kg                                                                                                                  |              |              |                             |                              |
| Warranty                                  | 10 Years                                                                                                                              |              |              |                             |                              |
| Certificate                               | TUV, CE                                                                                                                               |              |              |                             |                              |
| EMC Certification Standards               | IEC 61000-6-1, IEC 61000-6-3                                                                                                          |              |              |                             |                              |
| Safety Certification Standards            | IEC/EN62477-1, IEC 62619, IEC 60730 Annex H, IEC 63056                                                                                |              |              |                             |                              |
| Environment                               | RoHS                                                                                                                                  |              |              |                             |                              |
| Transportation                            | UN38.3                                                                                                                                |              |              |                             |                              |
| Cooling                                   | Natural cooling                                                                                                                       |              |              |                             |                              |