



AIO-LFP 6.14-24.5 kWh

4-12kW Three Phase Inverter



Remove
cover



FEATURES

92%-98%

Discharge efficiency rates range from 92% to 98% (compare with low voltage three phase inverter system)

<30w

Anti-reflux power accuracy is less than 30W

<15w

Self-consumption of the inverter power and stand-by less than 15W

<25dB

Noise is less than 25dB at full power

>97%

Useable energy of battery is over 97%

<2Hours

Installation is less than 2 hours

>99%

Aftersales contentment of APP&Web is over 99%

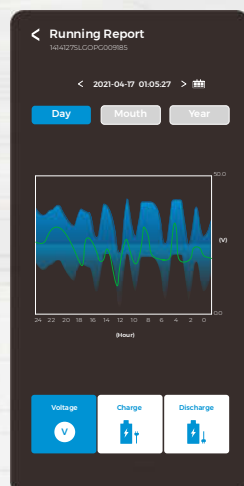
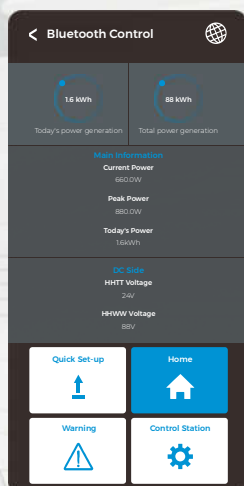
130-700v

Battery input of inverter 130V-700V



Nine advantages

- 1 Remote Monitoring
- 2 SOC Dynamic Calibration
- 3 Battery Integration Strategy
- 4 Parallel Connection
- 5 Triple Electrical Safety Protection
- 6 Voltage Balancing Between the Batteries
- 7 Accurate Acquisition of Battery's Information
- 8 ON/OFF Management Including Automatic Wake-up Function
- 9 Module design, Scalable up to 4 Battery Packs(6.14 kWh, 512V module)





Technical Specifications

| Model | CTE- INVT-3P-4kW | CTE- INVT-3P-5kW | CTE- INVT-3P-6kW | CTE- INVT-3P-8kW | CTE- INVT-3P-10kW | CTE- INVT-3P-12kW |
|---------------------------------------|---------------------------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Input (DC) | | | | | | |
| Max DC power | 6000W | 7500W | 9000W | 12000W | 15000W | 15000W |
| Max DC voltage | 1000 Vd.c. | | | | | |
| MPPT voltage range | 200...850 Vd.c. | | | | | |
| Max input current/per string | 13Ax2 | | | | | |
| Number of MPPT trackers | 2 | | | | | |
| Number of input string | 2 | | | | | |
| Battery Input | | | | | | |
| Battery Type | Li-Lon | | | | | |
| Battery voltage range | 130-700V | | | | | |
| Max charge/dis charge current | 25/25A | | | | | |
| Charge strategy for Li-thium Battery | Self-adaption to BMS | | | | | |
| Output(AC) | | | | | | |
| AC nominal power | 4000VA | 5000VA | 6000VA | 8000VA | 10000VA | 12000VA |
| Max AC apparent power(AC Output) | 5000VA | 5500VA | 7000VA | 8800VA | 11000VA | 13200VA |
| Max output current | 8A | 10A | 12A | 15A | 17A | 20A |
| Nominal AC output | 50/60HZ; 400/350 | | | | | |
| AC output range | 45/55HZ; 280-490 Vac(Adj) | | | | | |
| Power factor | 0.8 leading...0.8laging | | | | | |
| Harmonics | < 3% | | | | | |
| Grid type | 3W/N/PE | | | | | |
| Three-phase unbalance output | 0~100% | | | | | 0~80% |
| AC Output(Back-up) | | | | | | |
| Max AC apparent power(Back-up AC) | 4000VA | 5000VA | 6000VA | 8000VA | 10000VA | 10000VA |
| Nominal Output Voltage | 400/380V | | | | | |
| Nominal Output Frequency | 50/60HZ | | | | | |
| Output THDV (@Linear Load) | < 3% | | | | | |
| Efficiency | | | | | | |
| Max conversion efficiency | 98.0% | 98.0% | 98.2% | 98.2% | 98.2% | 98.2% |
| European efficiency | 97.3% | 97.3% | 97.5% | 97.5% | 97.5% | 97.5% |
| Max battery to AC Efficiency | 97.2% | 97.2% | 97.4% | 97.4% | 97.4% | 97.4% |
| MPPT efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Safety and Protection | | | | | | |
| DC reverse-polarity protection | yes | | | | | |
| DC breaker | yes | | | | | |
| DC/AC SPD | yes | | | | | |
| Leakage current protection | yes | | | | | |
| Insulation impedance Detection | yes | | | | | |
| Residual current protection | yes | | | | | |
| Output short circuit protection | yes | | | | | |
| Battery reverse connection protection | yes | | | | | |
| General Parameters | | | | | | |
| Dimension (L × W ×H) | 650*360*280mm | | | | | |
| Weight | 29kg | | | | | |
| Operating temperature range °C | -25°C...+60°C | | | | | |
| Degree of protection | IP54 | | | | | |
| Cooling concept | Natural convection | | | | | |
| Topology | Transformerless | | | | | |
| Display | LCD | | | | | |
| Humidity | 0-95%,no condensation | | | | | |
| Communication | Standard WiFi;GPRS/LAN(optional) | | | | | |
| Warranty | Standard 5 years; 7/10 years optional | | | | | |
| BMS communication | CAN/RS485 | | | | | |
| Meter communication | RS485 | | | | | |





Certificates and Approvals

CQC, VDE-AR-N4105, IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477

The range of output voltage and frequency may vary depending upon different grid codes.
Specifications are subject to change without advance notice.



Technical Specifications

| | | | | |
|-----------------------------------|---|---|---|---|
| Energy Pod |  |  |  |  |
| Items | 6.14kWh | 12.28kWh | 18.42kWh | 24.56kWh |
| Nominal Capacity | 6.14kWh | 12.28kWh | 18.42kWh | 24.56kWh |
| Size (L × W ×H)(mm) | 650x210x410 | 650x210x820 | 650x210x1230 | 650x210x1640 |
| Weight | 69kg | 138kg | 207kg | 276kg |
| Max Usable Capacity | 5.53kWh | 11.05kWh | 16.58kWh | 22.10kWh |
| Rated Discharge/ Charge Current | 7.2A | 14.4A | 21.6A | 28.8A |
| Nominal Dis-/Charge Power | 3.69kW | 7.37kW | 11.06kW | 14.75kW |
| Peak Power(Only Discharge) | 6.14kW for 3s | 12.28kW for 3s | 18.42kW for 3s | 24.56kW for 3s |
| Battery Operation Voltage | 448-568Vd.c | | | |
| Nominal Battery Voltage | 512V | | | |
| Max Battery Voltage | 568V | | | |
| Max Recommended DOD | 90% | | | |
| Operating Condition | Indoor | | | |
| Operating Temperature | From -10~50 °C | | | |
| WIFI Frequency Range | 2400MHz~2483MHz | | | |
| Humidity | <60%(No condensed water) | | | |
| Pollution Degree | 3 | | | |
| Over Voltage Category | II | | | |
| Cooling Type | Natural cooling | | | |
| Case Material | Aluminium alloy | | | |
| IP Rating | IP 54 | | | |
| Efficiency | 96% | | | |
| Protective Class | I | | | |
| Max Number of Parallel | 4 | | | |
| Warranty | 10 years | | | |
| Life Span | >15 years | | | |
| Communication | CAN/ RS485 | | | |
| Battery Protection | Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature | | | |
| Hazardous Material Classification | 9 | | | |
| Transportation | UN 38.3 | | | |
| Certification & Safety Standard | CE / UL1973 / IEC62619 / IEC 62477 / IEC 62040 / MSDS / UN38.3 | | | |

Testing conditions based on temperature 25 °C at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from CTE 0.2C CC-CV