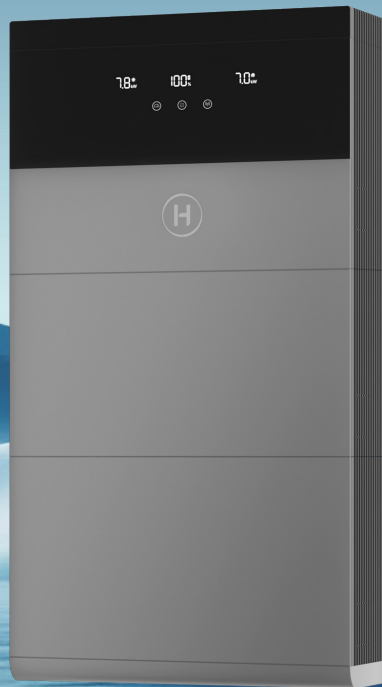


# HIONE - THREE-PHASE INVERTER

HiOne-(8-20)T-G3



Inverter

Battery

## Features

- 01 Supports three-phase unbalanced output, ensuring stable operation under complex load conditions
- 02 Up to 200% DC/AC oversizing to significantly boost power generation efficiency
- 03 Four independent 20 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops
- 04 Rugged IP66 enclosure design ensures performance in harsh environments
- 05 Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads
- 06 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

## Technical Specifications

| Model                                                   | HiOne-8T-G3                                                                                                                                                            | HiOne-10T-G3         | HiOne-12T-G3            | HiOne-16T-G3            | HiOne-20T-G3            |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-------------------------|-------------------------|
| Battery                                                 |                                                                                                                                                                        |                      |                         |                         |                         |
| Battery type                                            | Li-ion                                                                                                                                                                 |                      |                         |                         |                         |
| Battery voltage range (V)                               | 720-950                                                                                                                                                                |                      |                         |                         |                         |
| Compatible battery model                                | HiOne-6B-G3, HiOne-8B-G3                                                                                                                                               |                      |                         |                         |                         |
| Number of modules                                       | 1-8 <sup>(1)</sup>                                                                                                                                                     |                      |                         |                         |                         |
| PV Input                                                |                                                                                                                                                                        |                      |                         |                         |                         |
| Recommended max. PV power (W)                           | 16000                                                                                                                                                                  | 20000                | 24000                   | 32000                   | 40000                   |
| Max. input voltage (V)                                  | 1000                                                                                                                                                                   |                      |                         |                         |                         |
| Rated voltage (V)                                       | 720                                                                                                                                                                    |                      |                         |                         |                         |
| Start-up voltage (V)                                    | 170                                                                                                                                                                    |                      |                         |                         |                         |
| MPPT voltage range (V)                                  | 150-950                                                                                                                                                                |                      |                         |                         |                         |
| Max. input current (A)                                  | 20/20/20                                                                                                                                                               | 20/20/20             | 20/20/20/20             | 20/20/20/20             | 20/20/20/20             |
| Max. short circuit current (A)                          | 30/30/30                                                                                                                                                               | 30/30/30             | 30/30/30/30             | 30/30/30/30             | 30/30/30/30             |
| MPPT number/Max. input strings number                   | 3/3                                                                                                                                                                    | 3/3                  | 4/4                     | 4/4                     | 4/4                     |
| AC Output                                               |                                                                                                                                                                        |                      |                         |                         |                         |
| Rated output power (W)                                  | 8000                                                                                                                                                                   | 10000                | 12000                   | 16000                   | 20000                   |
| Max. on-grid output apparent power (VA)                 | 8800                                                                                                                                                                   | 11000 <sup>(2)</sup> | 13200                   | 17600                   | 22000                   |
| Max. output current (A)                                 | 13.3                                                                                                                                                                   | 16.7                 | 20.0                    | 26.7                    | 33.3                    |
| Max. off-grid output apparent power (VA) <sup>(3)</sup> | 12000 (10s)                                                                                                                                                            | 15000 (10s)          | 18000 (10s)             | 24000 (10s)             | 30000 (10s)             |
| Grid form                                               | 3L/N/PE                                                                                                                                                                |                      |                         |                         |                         |
| Nominal AC output voltage (V)                           | 380/400                                                                                                                                                                |                      |                         |                         |                         |
| Nominal grid frequency (Hz)                             | 50/60                                                                                                                                                                  |                      |                         |                         |                         |
| Power factor                                            | >0.99 (0.8 leading-0.8 lagging)                                                                                                                                        |                      |                         |                         |                         |
| THDi (@rated output)                                    | <3%                                                                                                                                                                    |                      |                         |                         |                         |
| Efficiency                                              |                                                                                                                                                                        |                      |                         |                         |                         |
| Max. efficiency                                         | 98.5%                                                                                                                                                                  |                      |                         |                         |                         |
| EU efficiency                                           | 98.0%                                                                                                                                                                  |                      |                         |                         |                         |
| Protection                                              |                                                                                                                                                                        |                      |                         |                         |                         |
| Anti-islanding protection                               | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| PV string input reverse polarity protection             | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| Insulation resistor detection                           | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| Residual current monitoring unit                        | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| AC overcurrent protection                               | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| AC short circuit protection                             | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| AC overvoltage and undervoltage protection              | Integrated                                                                                                                                                             |                      |                         |                         |                         |
| Surge protection                                        | DC Type II / AC Type II                                                                                                                                                |                      |                         |                         |                         |
| General                                                 |                                                                                                                                                                        |                      |                         |                         |                         |
| Dimensions (W × H × D [mm])                             | 620 × 360 × 255                                                                                                                                                        |                      |                         |                         |                         |
| Weight (kg)                                             | 31                                                                                                                                                                     |                      |                         |                         |                         |
| Mounting                                                | Wall-mounted / Floor-standing                                                                                                                                          |                      |                         |                         |                         |
| Operating temperature (°C)                              | -30 to +65 (>45, derating)                                                                                                                                             |                      |                         |                         |                         |
| Relative humidity                                       | 0-95%, no condensation                                                                                                                                                 |                      |                         |                         |                         |
| Cooling                                                 | Natural convection                                                                                                                                                     | Natural convection   | Intelligent air cooling | Intelligent air cooling | Intelligent air cooling |
| Topology (Solar / Battery)                              | Transformerless / High-frequency isolation                                                                                                                             |                      |                         |                         |                         |
| Altitude (m)                                            | ≤4000                                                                                                                                                                  |                      |                         |                         |                         |
| Protection degree                                       | IP66                                                                                                                                                                   |                      |                         |                         |                         |
| User interface                                          | LED & App                                                                                                                                                              |                      |                         |                         |                         |
| Communication                                           | RS485, Bluetooth, Wi-Fi / Ethernet / 4G (optional)                                                                                                                     |                      |                         |                         |                         |
| Warranty                                                | 10 Years                                                                                                                                                               |                      |                         |                         |                         |
| Standard Compliance                                     |                                                                                                                                                                        |                      |                         |                         |                         |
| Grid connection standard                                | IEC 61727, IEC 62116, EN 50549-1&10, NF EN 50549-1&-10, VDE-AR-N 4105, DIN VDE V 0124-100, PN-EN 50549-1, NC RfG, CEI0-21, AS/NZS 4777.2, PEA/MEA, TOR Erzeuger Type A |                      |                         |                         |                         |
| Safety / EMC standard                                   | IEC/EN 61000-6-1, IEC/EN 61000-6-3, EN 62920, IEC/EN 62109-1&2                                                                                                         |                      |                         |                         |                         |

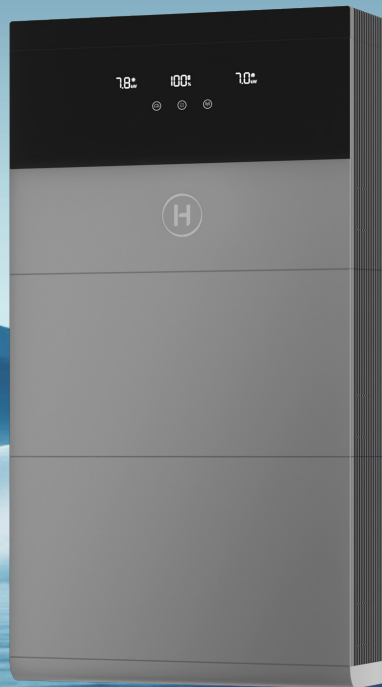
(1) Up to four modules can be stacked in one battery tower.

(2) For Belgium, the maximum output apparent power is equal to the nominal output apparent power.

(3) Applicable only when the inverter is connected to Hoymiles gateway.

# HIONE - BATTERY

HiOne-6B-G3  
HiOne-8B-G3



Inverter

Battery

## Features

- 01 Equipped with 314 Ah large-capacity cells for extended cycle life and enduring performance
- 02 Multi-layer protection mechanisms ensure comprehensive electrical safety
- 03 Built-in optimizers support mixed use of new and old battery packs, maximizing system scalability
- 04 Adapts to low temperature with self-heating technology, ensuring performance even in extreme cold

# Technical Specifications

| Model                                       | HiOne-6B-G3                                                                           |                    | HiOne-8B-G3 |
|---------------------------------------------|---------------------------------------------------------------------------------------|--------------------|-------------|
| Battery Data                                |                                                                                       |                    |             |
| Battery type                                | LiFePO <sub>4</sub>                                                                   |                    |             |
| Cell capacity (Ah)                          | 314                                                                                   |                    |             |
| Cycle life                                  | 8000 <sup>(1)</sup>                                                                   |                    |             |
| Total energy (kWh)                          | 6                                                                                     | 8                  |             |
| Usable energy (kWh)                         | 5.85 <sup>(2)</sup>                                                                   | 7.8 <sup>(2)</sup> |             |
| Depth of discharge                          | 100% <sup>(3)</sup>                                                                   |                    |             |
| Max. charging/discharging power (kW)        | 3                                                                                     | 4                  |             |
| Peak discharge power (kW)                   | 4.5 (10 s)                                                                            | 6 (10 s)           |             |
| Max. stackable quantity                     | 4                                                                                     |                    |             |
| Max. parallel quantity                      | 2                                                                                     |                    |             |
| General                                     |                                                                                       |                    |             |
| Dimensions (W × H × D [mm])                 | 620 × 360 × 255 (single pack)                                                         |                    |             |
| Weight (kg)                                 | 55                                                                                    | 67                 |             |
| Mounting                                    | Wall-mounting / Floor-standing                                                        |                    |             |
| Installation environment                    | Indoor / Outdoor                                                                      |                    |             |
| Storage temperature range (°C)              | -25 to +60                                                                            |                    |             |
| Charging/discharging temperature range (°C) | -20 to +55                                                                            |                    |             |
| Protection degree                           | IP66                                                                                  |                    |             |
| Cooling                                     | Natural convection                                                                    |                    |             |
| Altitude (m)                                | ≤4000                                                                                 |                    |             |
| Relative humidity range                     | 5% - 95%                                                                              |                    |             |
| Compatible inverters                        | HiOne-(8-20)T-G3, HiOne-(3.6-12)S-G3                                                  |                    |             |
| Standard compliance                         | IEC/EN 60730-1, IEC/EN 61000-6-1&3, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62477 |                    |             |
| Warranty                                    | 10 Years                                                                              |                    |             |

(1) This value is provided by the cell manufacturer and is based on the following conditions: SOH=70%, 0.5 C charge/discharge rate at 25±2°C.

(2) This value is measured at the beginning of life under the following conditions: 100% depth of discharge, 0.2 C charge/discharge rate at 25±2°C.

(3) This value refers to the usable energy capacity of the battery. To keep the battery in good condition, recharge it within 7 days after it has been fully discharged.

