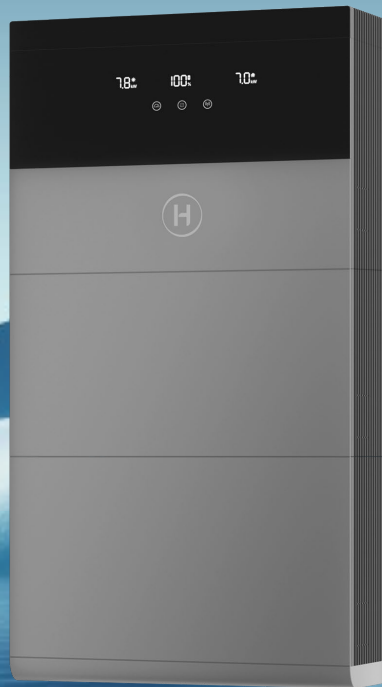


# HIONE - THREE-PHASE INVERTER

HiOne-(8-20)T-G3-AU



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

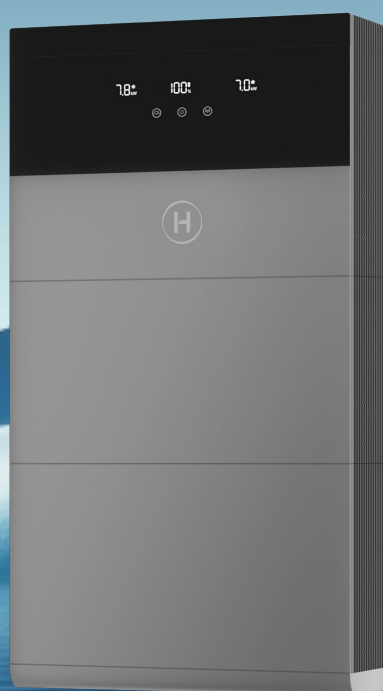
| Model                                         | HiOne-8T-G3-AU                            | HiOne-10T-G3-AU | HiOne-12T-G3-AU         | HiOne-16T-G3-AU | HiOne-20T-G3-AU |
|-----------------------------------------------|-------------------------------------------|-----------------|-------------------------|-----------------|-----------------|
| Battery                                       |                                           |                 |                         |                 |                 |
| Battery type                                  | Li-ion                                    |                 |                         |                 |                 |
| Battery voltage range (V)                     | 720-950                                   |                 |                         |                 |                 |
| Max. charge/discharge current (A)             | 11.1/11.7                                 | 13.9/14.6       | 16.7/17.5               | 22.2/23.3       | 27.8/29.2       |
| Compatible battery model                      | 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 Input and Output (On-grid)                 |                                           |                 |                         |                 |                 |
| Rated Input/output power (W)                  | 8000                                      | 9900            | 12000                   | 16000           | 20000           |
| Max. on-grid input/output apparent power (VA) | 8800                                      | 9900            | 13200                   | 17600           | 22000           |
| Max. input/output current (A)                 | 13.3                                      | 14.3            | 20.0                    | 26.7            | 33.3            |
| Grid form                                     | 3L/N/PE                                   |                 |                         |                 |                 |
| Rated AC input/output voltage (V)             | 220/380, 230/400                          |                 |                         |                 |                 |
| Rated grid frequency (Hz)                     | 50/60                                     |                 |                         |                 |                 |
| Power factor                                  | >0.99 (0.8 leading - 0.8 lagging)         |                 |                         |                 |                 |
| THDi (@rated output)                          | <3%                                       |                 |                         |                 |                 |
| AC Output (Off-grid)                          |                                           |                 |                         |                 |                 |
| Rated output power (W)                        | 8000                                      | 10000           | 12000                   | 16000           | 20000           |
| Peak output power (W) <sup>(2)</sup>          | 12000 (10 s)                              | 15000 (10 s)    | 18000 (10 s)            | 24000 (10 s)    | 30000 (10 s)    |
| Grid form                                     | 3L/N/PE                                   |                 |                         |                 |                 |
| Rated AC output voltage (V)                   | 220/380, 230/400                          |                 |                         |                 |                 |
| Rated grid frequency (Hz)                     | 50/60                                     |                 |                         |                 |                 |
| Power factor                                  | >0.99 (0.8 leading-0.8 lagging)           |                 |                         |                 |                 |
| THDv (@rated output)                          | <3%                                       |                 |                         |                 |                 |
| Back-up switch time (ms)                      | 0                                         |                 |                         |                 |                 |
| 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                                      | Floor-standing / Wall-mounting (optional) |                 |                         |                 |                 |
| Storage temperature (°C)                      | -40 to +70                                |                 |                         |                 |                 |
| Operating temperature (°C)                    | -30 to +65 (>45, derating)                |                 |                         |                 |                 |
| Relative humidity                             | 0-100%                                    |                 |                         |                 |                 |
| Cooling                                       | Natural convection                        |                 | Intelligent air cooling |                 |                 |
| Topology                                      | Non-isolation                             |                 |                         |                 |                 |
| Altitude (m)                                  | ≤4000                                     |                 |                         |                 |                 |
| Protection degree                             | IP66                                      |                 |                         |                 |                 |
| User interface                                | LED & App                                 |                 |                         |                 |                 |
| Communication                                 | RS485, Bluetooth/Wi-Fi/WL/4G (optional)   |                 |                         |                 |                 |
| Warranty                                      | 10 years                                  |                 |                         |                 |                 |

(1) Up to 4 modules can be stacked in one battery tower.

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

# HIONE - BATTERY

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-8B-G3                                |
|---------------------------------------------|--------------------------------------------|
| Battery Data                                |                                            |
| Battery type                                | LiFePO <sub>4</sub>                        |
| Cell capacity (Ah)                          | 314                                        |
| Cycle life                                  | 8000 <sup>(1)</sup>                        |
| Total energy (kWh)                          | 8                                          |
| Usable energy (kWh)                         | 7.8 <sup>(2)</sup>                         |
| Depth of discharge                          | 100% <sup>(3)</sup>                        |
| Max. charging/discharging power (kW)        | 4                                          |
| Peak discharge power (kW)                   | 6 (10 s)                                   |
| Max. stackable quantity                     | 4                                          |
| Max. parallel quantity                      | 2                                          |
| General                                     |                                            |
| Dimensions (W × H × D [mm])                 | 620 × 360 × 255 (single pack)              |
| Weight (kg)                                 | 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-AU, HiOne-(3.6-12)S-G3-AU |
| 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.

