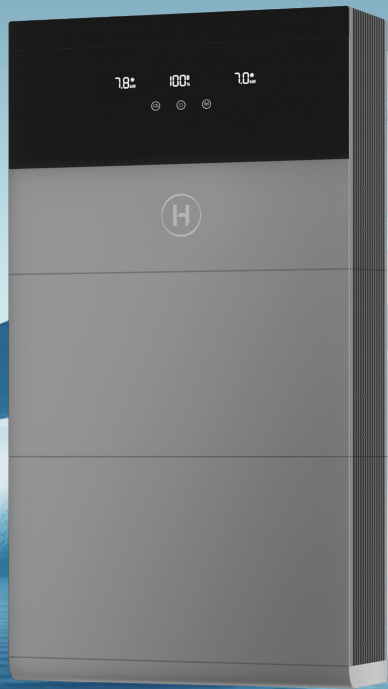




# HIONE - THREE-PHASE INVERTER

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

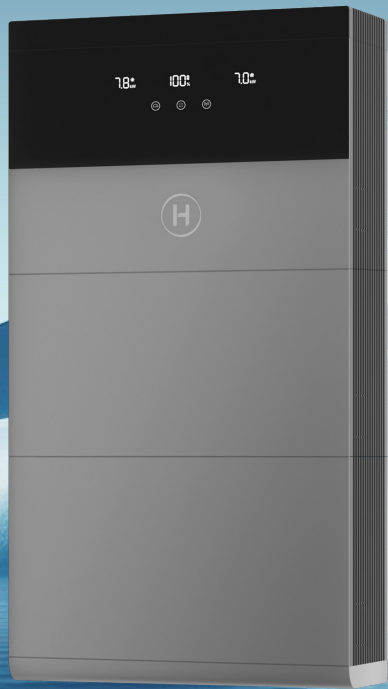
| Model                                         | HiOne-8T-G3-AU                            | HiOne-10T-G3-AU    | HiOne-12T-G3-AU         | HiOne-16T-G3-AU         | HiOne-20T-G3-AU         |
|-----------------------------------------------|-------------------------------------------|--------------------|-------------------------|-------------------------|-------------------------|
| 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                        | Natural convection | Intelligent air cooling | Intelligent air cooling | Intelligent air cooling |
| Topology                                      | Non-isolation                             |                    |                         |                         |                         |
| Altitude (m)                                  | ≤4000                                     |                    |                         |                         |                         |
| Protection degree                             | IP66                                      |                    |                         |                         |                         |
| Noise (dB)                                    | <35                                       | <35                | <55                     | <55                     | <55                     |
| 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 - HIGH VOLTAGE 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                            |
| Total energy (kWh)                    | 8                              |
| 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               |
| Charging/discharging temperature (°C) | -20 to +55                     |
| Protection degree                     | IP66                           |
| Cooling                               | Natural convection             |
| Altitude (m)                          | ≤4000                          |
| Warranty                              | 10 years                       |

