

**HOME ENERGY STORAGE**

# Future-H Series

Stackable battery · 5.12 kWh


**5.12** kWh

ENERGY CAPACITY

**51.2** V

NOMINAL VOLTAGE

**>4000** cycles

CYCLE LIFE

**6** kW

RATED POWER

| Parameter                                   | Unit | SIM 6000 ES Plus-H                                     |
|---------------------------------------------|------|--------------------------------------------------------|
| <b>PV input</b>                             |      |                                                        |
| Max. PV input power                         | W    | 8000                                                   |
| Max. PV input voltage                       | V    | 500                                                    |
| MPPT voltage range                          | V    | 120 – 450                                              |
| Max. input current per MPPT                 | A    | 16                                                     |
| Number of MPPT trackers                     |      | 2                                                      |
| PV strings per MPPT                         |      | 1                                                      |
| Max. solar charge current                   | A    | 100                                                    |
| <b>AC output</b>                            |      |                                                        |
| Rated output power                          | W    | 6000                                                   |
| Max. apparent power                         | VA   | 6000                                                   |
| Rated AC voltage                            | V    | 230                                                    |
| Phase                                       |      | Single-phase                                           |
| Rated AC frequency                          | Hz   | 50/60                                                  |
| Output waveform                             |      | Pure sine wave                                         |
| Generator input                             |      | Yes                                                    |
| Max. parallel units                         |      | 3                                                      |
| Surge power                                 | VA   | 12000                                                  |
| AC output voltage regulation (battery mode) | %    | ±5                                                     |
| Transfer time                               | ms   | 10 typical; 20 max                                     |
| AC charge current                           | A    | 80                                                     |
| AC input voltage                            | V    | 230                                                    |
| AC input voltage range (selectable)         | V    | 170-280 (personal computers); 90-280 (home appliances) |
| AC input frequency range                    | Hz   | 50/60 (auto sensing)                                   |

| Parameter                                                     | Unit   | SIM 6000 ES Plus-H                                |
|---------------------------------------------------------------|--------|---------------------------------------------------|
| <b>Battery</b>                                                |        |                                                   |
| Cell type                                                     |        | LiFePO4                                           |
| Nominal energy capacity                                       | Wh     | 5120                                              |
| Usable energy capacity                                        | Wh     | 5000                                              |
| Nominal voltage                                               | V      | 51.2                                              |
| Operating voltage range                                       | V      | 40 – 58.4                                         |
| Max. charge current                                           | A      | 100                                               |
| Max. discharge current                                        | A      | 100                                               |
| Depth of discharge (DoD)                                      | %      | 93                                                |
| Cycle life                                                    | cycles | >4000                                             |
| Max. expandable energy                                        | Wh     | 30000                                             |
| Battery module model                                          |        | ABM 5.0LS-B1-H                                    |
| Battery peak discharge current (150 ms)                       | A      | 250                                               |
| Max. battery modules in parallel                              |        | 6                                                 |
| Battery module dimensions (W x H x D)                         | mm     | 630 × 150 × 440                                   |
| Battery module weight                                         | kg     | 48                                                |
| Battery charge temperature range                              | °C     | 0 – 55                                            |
| Battery discharge temperature range                           | °C     | –20 – 55                                          |
| Battery warranty                                              | years  | 5                                                 |
| <b>Efficiency</b>                                             |        |                                                   |
| Max. efficiency                                               | %      | 93                                                |
| <b>General data</b>                                           |        |                                                   |
| Dimensions (W x H x D)                                        | mm     | 460 × 132 × 395                                   |
| Weight                                                        | kg     | 16                                                |
| Ingress protection (IP rating)                                |        | IP20                                              |
| Operating temperature range                                   | °C     | 0 – 55                                            |
| Relative humidity                                             | %      | 5 – 95                                            |
| Max. operating altitude                                       | m      | <2000                                             |
| Warranty                                                      | years  | 2                                                 |
| Storage temperature                                           | °C     | –15 – 60                                          |
| System dimensions (W x H x D) for 1, 2 and 3 inverter modules | mm     | 460 x 132 x 395; 460 x 264 x 395; 460 x 396 x 395 |
| System net weight for 1, 2 and 3 inverter modules             | kg     | 16; 32; 48                                        |
| <b>Communication</b>                                          |        |                                                   |
| Communication interfaces                                      |        | CAN; RS485                                        |

| Parameter                    | Unit | SIM 6000 ES Plus-H           |
|------------------------------|------|------------------------------|
| Certifications               |      |                              |
| Certifications and standards |      | CE; RoHS                     |
| Battery certification        |      | CE (EMC); UN38.3; MSDS; RoHS |
| System                       |      |                              |
| System rated power           | kW   | 6 – 18                       |

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.  
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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