

Residential energy storage inverters

# EH series energy storage inverter



## Key strengths

- Supports grid-connected and off-grid AC coupling functions
- Support intelligent load management (customized)
- Support three-phase and multi-machine parallel connection
- Support BMS remote upgrade function (customized)

### DC input

| Model                                   | EH-5KL1 | EH-6KL1    |
|---|---------|------------|
| Max. power (kW)                         | 7.5     | 9          |
| Start-up voltage (V)                    |         | 100        |
| Max.DC voltage (V)                      |         | 550        |
| MPPT voltage range/rated voltage(V)     |         | 80-500/360 |
| PV/(Isc) (A)                            |         | 24/24      |
| Max.input current of each component (A) |         | 16/16      |
| No. of MPPT                             |         | 2          |
| No.of strings per MPPT tracker          |         | 1/1        |

**AC output**

|                             |                            |      |
|-----------------------------|----------------------------|------|
| Rated output power (kVA/kW) | 5/5                        | 6/6  |
| Max output power (kVA)      | 5                          | 6.6  |
| Max. output current (A)     | 21.7                       | 28.7 |
| Grid voltage/range (Vac)    | 230/176 ~ 270              |      |
| Rate grid frequency (Hz)    | 50/60                      |      |
| Power factor                | 1(0.8leading...0.8lagging) |      |
| THDi                        | < 3%                       |      |
| AC grid type                | L+N+PE                     |      |

**Battery**

|                                   |         |         |
|-----------------------------------|---------|---------|
| Battery voltage range (V)         | 40~58   |         |
| Max. charging voltage (V)         | 58      |         |
| Max. charge/discharge current (A) | 100/100 | 120/120 |
| Communication interface           | CAN/485 |         |

**Emergency power output**

|                                |       |     |
|--------------------------------|-------|-----|
| Rated power (kVA/kW)           | 5/5   | 6/6 |
| Rated output voltage (Vac)     | 230   |     |
| Rated output current (A)       | 21.7  | 26  |
| Rated output frequency (Hz)    | 50/60 |     |
| Automatic switchover time (ms) | ≤10   |     |
| THDu                           | <2%   |     |

**General data**

|                                     |                         |
|-------------------------------------|-------------------------|
| Battery charge/discharge efficiency | 96%                     |
| Max. efficiency                     | 97.2%                   |
| Europe efficiency                   | 97%                     |
| MPPT efficiency                     | 99.9%                   |
| Ingress protection                  | IP65                    |
| Noise emission (dB)                 | <35                     |
| Operation temperature (°C)          | -25 ~ 60                |
| Cooling                             | Natural                 |
| Relative humidity                   | 0 ~95% (Non-condensing) |
| Operating altitude (m)              | 2,000 (>2,000 Derating) |
| Dimensions W*D*H (mm)               | 455*215*385             |
| Net weight (kg)                     | 20.7                    |
| Isolation transformer               | /                       |
| Standby loss (W)                    | <15                     |

**Display and communication**

|  |                     |
|--|---------------------|
| Display  | /                   |
| Communication interface<br>RS485/Wifi/GPRS/CAN/DRM | Yes/Opt/Opt/Yes/Yes |