

## Haier Energy Storage Inverters

### Features:

- Max. string input current 15A
- Uninterrupted power supply, 20ms reaction
- 5kW backup power to support more important loads
- Multiple working modes to make maximize self-consumption, increase benefit
- Higher charge-discharge efficiency, improving the economic benefits
- AFCI protection, proactively reduces fire risk
- Fanless design, long lifespan
- Compatible with lithium & lead-acid batteries, increased more choice in different markets
- Intelligent EMS function, improving battery's reliability
- With high-frequency isolation technology, making system safer and long lifespan
- 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- Remotely control & upgrade function, making digital power plant maintenance at your fingertips

### Models:

H1PL-2J3K-EU/H1PL-2J3.6K-EU

H1PL-2J4.6K-EU/H1PL-2J5K-EU

H1PL-2J6K-EU

# DATASHEET

| Models  | 3K  | 3.6K            | 4.6K                                   | 5K              | 6K              |
|---|---|-----------------|--|-----------------|-----------------|
| <b>Input DC (PV side)</b>                         |   |                 |  |                 |                 |
| Recommended max. PV power                         | 4.8 kW  | 5.7 kW          | 8 kW                                   | 8 kW            | 8 kW            |
| Max. input voltage                                |   |                 | 600 V                                  |                 |                 |
| Rated voltage                                     |   |                 | 330 V                                  |                 |                 |
| Start-up voltage                                  |   |                 | 120 V                                  |                 |                 |
| MPPT voltage range                                |   |                 | 90-520 V                               |                 |                 |
| Max. input current                                |   |                 | 15 A / 15 A                            |                 |                 |
| Max. short circuit current                        |   |                 | 22.5 A / 22.5 A                        |                 |                 |
| MPPT number/Max. input strings number             |   |                 | 2/2                                    |                 |                 |
| <b>Battery</b>                                    |   |                 |  |                 |                 |
| Battery type                                      |   |                 | Li-ion / Lead-acid                     |                 |                 |
| Battery voltage range                             |   |                 | 42 - 58 V                              |                 |                 |
| Battery capacity                                  |   |                 | 50 - 2000 Ah                           |                 |                 |
| Max. charge / discharge power                     | 3 kW  |                 |  |                 | 5 kW            |
| Max. charge / discharge current                   | 62.5 A  |                 |  |                 | 100 A           |
| Communication                                     |   |                 | CAN                                    |                 |                 |
| <b>Output AC (Back-up)</b>                        |   |                 |  |                 |                 |
| Rated output power                                | 3 kW  |                 |  |                 | 5 kW            |
| Max. apparent output power                        | 4.5 kVA, 10 sec   |                 |  |                 | 7 kVA, 10 sec   |
| Back-up switch time                               |   |                 | <20 ms                                 |                 |                 |
| Rated output voltage                              |   |                 | 1/N/PE, 220 V / 230 V                  |                 |                 |
| Rated frequency                                   |   |                 | 50 Hz / 60 Hz                          |                 |                 |
| Rated output current                              | 14 A / 13.5 A   |                 |  |                 | 23 A / 22 A     |
| THDv (@linear load)                               |   |                 | <3%                                    |                 |                 |
| <b>Input AC (Grid side)</b>                       |   |                 |  |                 |                 |
| Input voltage range                               |   |                 | 187-265 V                              |                 |                 |
| Max. input current                                | 20.5 A / 20 A   | 25 A / 23.5 A   | 31.5 A / 30 A                          | 34.5 A / 33 A   | 34.5 A / 33 A   |
| Frequency range                                   |   |                 | 45-55 Hz / 55-65 Hz                    |                 |                 |
| <b>Output AC (Grid side)</b>                      |   |                 |  |                 |                 |
| Rated output power                                | 3 kW  | 3.6 kW          | 4.6 kW                                 | 5 kW            | 6 kW            |
| Max. apparent output power                        | 3.3 kVA   | 4 kVA           | 4.6 kVA                                | 5.5 kVA         | 6.6 kVA         |
| Operation phase                                   |   |                 | 1/N/PE                                 |                 |                 |
| Rated grid voltage                                |   |                 | 220 V / 230 V                          |                 |                 |
| Rated grid frequency                              |   |                 | 50 Hz / 60 Hz                          |                 |                 |
| Rated grid output current                         | 13.7 A / 13.1 A   | 16.4 A / 15.7 A | 20.9 A / 20 A                          | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Max. output current                               | 15 A  | 18.5 A          | 21 A                                   | 25 A            | 30 A            |
| Power factor                                      |   |                 | >0.99 (0.8 leading - 0.8 lagging)      |                 |                 |
| THDi  |   |                 | <3%                                    |                 |                 |
| <b>Efficiency</b>                                 |   |                 |  |                 |                 |
| Max. efficiency                                   |   |                 | >97.1%                                 |                 |                 |
| EU efficiency                                     |   |                 | >96.5%                                 |                 |                 |
| <b>Protection</b>                                 |   |                 |  |                 |                 |
| DC reverse-polarity protection                    |   |                 | Yes                                    |                 |                 |
| Short circuit protection                          |   |                 | Yes                                    |                 |                 |
| Output over current protection                    |   |                 | Yes                                    |                 |                 |
| Surge protection                                  |   |                 | DCType II / ACType II                  |                 |                 |
| Ground fault monitoring                           |   |                 | Yes                                    |                 |                 |
| Integrated AFCI (DC arc-fault circuit protection) |   |                 | Yes                                    |                 |                 |
| Protection class/Over voltage category            |   |                 | I/II                                   |                 |                 |
| <b>General Data</b>                               |   |                 |  |                 |                 |
| Dimensions (W*H*D)                                |   |                 | 333*505*249 mm                         |                 |                 |
| Weight  |   |                 | 18.3 kg                                |                 |                 |
| Topology  |   |                 | High frequency isolation (for battery) |                 |                 |
| Operating ambient temperature range               |   |                 | -25 ~ +60°C                            |                 |                 |
| Ingress protection                                |   |                 | IP65                                   |                 |                 |
| Cooling concept                                   |   |                 | Natural convection                     |                 |                 |
| Max. operation altitude                           |   |                 | 3000 m                                 |                 |                 |
| Grid connection standard                          | G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/ UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA |                 |  |                 |                 |
| Safety/EMC standard                               | IEC/EN 62109-1/-2, EN 61000-6-2/-3  |                 |  |                 |                 |
| <b>Features</b>                                   |   |                 |  |                 |                 |
| DC connection                                     |   |                 | MC4 connector                          |                 |                 |
| AC connection                                     |   |                 | Quick connection plug                  |                 |                 |
| Display   |   |                 | 7.0" LCD color screen display          |                 |                 |
| Communication                                     |   |                 | RS485, Optional: Wi-Fi, GPRS           |                 |                 |

(1) Activation required.