

| 30-60kW Hybrid Inverter                             |                                   |            |            |            |
|-----------------------------------------------------|-----------------------------------|------------|------------|------------|
| Model                                               | KY-EST30KH                        | KY-EST40KH | KY-EST50KH | KY-EST60KH |
| PV input parameters                                 |                                   |            |            |            |
| Maximum input power (W)                             | 36000                             | 48000      | 60000      | 72000      |
| Maximum input voltage (d.c.V)                       | 1000                              |            |            |            |
| MPPT operating voltage range (d.c.V)                | 180-900/630                       |            |            |            |
| MPPT operating voltage range at rated power (d.c.V) | 300-900                           | 400-900    | 400-900    | 450-900    |
| Starting voltage (d.c.V)                            | 180                               |            |            |            |
| Maximum input current (d.c.A)                       | 36/36/36                          |            |            |            |
| Maximum short circuit current (d.c.A)               | 42/42/42                          |            |            |            |
| Number of MPPT channels and strings                 | 2/2/2                             |            |            |            |
| Grid-connected parameters (AC)                      |                                   |            |            |            |
| Rated power (W)                                     | 30000                             | 40000      | 50000      | 60000      |
| Maximum apparent power (VA)                         | 30000                             | 40000      | 50000      | 60000      |
| Rated Voltage(Vac)                                  | 400,3L/N/PE                       |            |            |            |
| Rated frequency(Hz)                                 | 50/60                             |            |            |            |
| Maximum current (a.c.A)                             | 45                                | 60         | 75         | 87         |
| Power factor range                                  | 0.8 ind...0.8 cap                 |            |            |            |
| Current THD(@rated power)                           | <3%                               |            |            |            |
| Battery Port                                        |                                   |            |            |            |
| Maximum input/output voltage (d.c.V)                | 800                               |            |            |            |
| Operating voltage range (d.c.V)                     | 220-800                           |            |            |            |
| Maximum charge/discharge current (d.c.A)            | 100/100                           |            |            |            |
| Maximum input/output power (W)                      | 30000                             | 40000      | 50000      | 60000      |
| Battery type                                        | Lithium battery/lead-acid battery |            |            |            |
| Off-grid parameters(Backup AC output)               |                                   |            |            |            |
| Rated voltage (a.c.V)                               | 400,3L/N/PE                       |            |            |            |
| Rated frequency(Hz)                                 | 50/60                             |            |            |            |
| Rated output current (a.c.A)                        | 45                                | 60         | 75         | 87         |
| Rated output power (W)                              | 30000                             | 40000      | 50000      | 60000      |
| Maximum apparent output power (W)                   | 30000                             | 40000      | 50000      | 60000      |
| Maximum single-phase apparent output power (VA)     | 10000                             | 13000      | 17000      | 20000      |
| On/off-grid switching time                          | < 10ms                            |            |            |            |
| Efficiency                                          |                                   |            |            |            |
| Maximum efficiency                                  | > 98.2%                           |            |            | > 98.4%    |
| Protection parameters                               |                                   |            |            |            |
| AC overcurrent protection                           | Yes                               |            |            |            |
| Ground fault detection protection                   | Yes                               |            |            |            |
| Power grid monitoring protection                    | Yes                               |            |            |            |
| Residual current detection protection               | Yes                               |            |            |            |
| Basic parameters                                    |                                   |            |            |            |
| Dimensions (W/H /D)                                 | 800*600*280mm                     |            |            |            |
| Weight(Kg)                                          | 50                                |            |            |            |
| Operating temperature range (°C)                    | -25°C ...+60°C(>45°C derating)    |            |            |            |
| Noise (dB)                                          | <=40dB(A)                         |            |            |            |
| Working altitude (m)                                | <=4000m(>2000m derating)          |            |            |            |
| Static loss                                         | <1W                               |            |            |            |
| Topology                                            | Transformerless                   |            |            |            |
| Cooling method                                      | Integrated fan                    |            |            |            |
| Ingress protection rating                           | IP54                              |            |            |            |
| Relative humidity                                   | 5-90%                             |            |            |            |
| DC interface type                                   | Push-in terminal                  |            |            |            |
| AC interface type                                   | Terminal block                    |            |            |            |
| Display                                             | LCD                               |            |            |            |
| Communication method                                | RS485 (WiFi/GPRS optional)        |            |            |            |
| Installation method                                 | wall-mounted/floor-standing       |            |            |            |