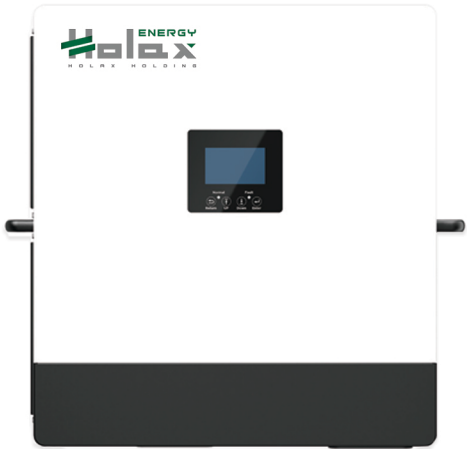


HLX2-HN 10-14K (SINGLE-PHASE)



- Max. PV input: 24kW with 2 MPPTs
- Max. charging and discharging current: 250A
- Support up to 16 units in parallel for on/off grid
- Lite Design for Easier Installation
- Support Hybrid Working Modes

| Model                                            | 10K                                                |                                               | 12K                               | 14K                       |
|--------------------------------------------------|----------------------------------------------------|-----------------------------------------------|-----------------------------------|---------------------------|
| INPUT (PV DC)                                    |                                                    |                                               |                                   |                           |
| Max. PV input power (W)                          | 18000 (9000/9000)                                  |                                               | 24000 (12000/12000)               |                           |
| Rated PV input voltage (V)                       |                                                    |                                               | 320                               |                           |
| Number of independent MPPT inputs                |                                                    |                                               | 2/(2:2)                           |                           |
| PV input voltage range (V)                       |                                                    |                                               | 100-480                           |                           |
| MPPT voltage range (V)                           |                                                    |                                               | 120-440                           |                           |
| Start-up voltage (V)                             |                                                    |                                               | 100                               |                           |
| Max. PV input current per MPPT (A)               | 26/26                                              |                                               | 35/35                             |                           |
| Max. PV short-circuit current input per MPPT (A) | 32.5/32.5                                          |                                               | 44/44                             |                           |
| Battery                                          |                                                    |                                               |                                   |                           |
| Compatible battery type                          | Lithium-ion/Lead-Acid                              |                                               |                                   |                           |
| Rated battery voltage (V)                        | 48/51.2                                            |                                               |                                   |                           |
| Battery voltage range (V)                        | 46.4~60/38.4~60                                    |                                               |                                   |                           |
| Max. charging / discharging current (A)          | 210                                                |                                               | 250                               |                           |
| Max. charging / discharging power (W)            | 10000                                              |                                               | 12000                             |                           |
| Force wake up battery from PV and Grid function  | YES                                                |                                               |                                   |                           |
| Grid                                             |                                                    |                                               |                                   |                           |
| Rated AC voltage (V)                             | 230                                                |                                               |                                   |                           |
| AC Start-up Voltage                              | 90                                                 |                                               |                                   |                           |
| Acceptable Input Voltage Range (V)               | 130~280                                            |                                               |                                   |                           |
| Rated AC frequency (Hz)                          | 50/60                                              |                                               |                                   |                           |
| Rated AC input current (A)                       | 100                                                |                                               |                                   |                           |
| Rated AC input power (W)                         | 24000                                              |                                               |                                   |                           |
| PF                                               | 0.99                                               |                                               |                                   |                           |
| THDI                                             | <5%                                                |                                               |                                   |                           |
| Max. continuous AC passthrough current(A)        | 100                                                |                                               |                                   |                           |
| GEN                                              |                                                    |                                               |                                   |                           |
| Rated GEN voltage (V)                            | 230                                                |                                               |                                   |                           |
| Rated GEN frequency (Hz)                         | 50/60                                              |                                               |                                   |                           |
| Rated GEN input current (A)                      | 65                                                 |                                               |                                   |                           |
| Rated GEN input power (W)                        | 15000                                              |                                               |                                   |                           |
| Rated GEN current of BYPASS relays (A)           | 90                                                 |                                               |                                   |                           |
| UPS                                              |                                                    |                                               |                                   |                           |
| Rated output power (W)                           | 10000                                              |                                               | 12000                             | 14000 (with PV + Battery) |
| Rated output voltage (V)                         |                                                    |                                               | 230                               |                           |
| Rated output current (A)                         | 43.5                                               |                                               | 52                                | 61                        |
| Rated output frequency (Hz)                      | 50/60                                              |                                               |                                   |                           |
| Switching time ( UPS )                           | <10ms                                              |                                               |                                   |                           |
| Wave form                                        | Sine wave                                          |                                               |                                   |                           |
| THDV                                             | <3%                                                |                                               |                                   |                           |
| Overload protection                              | 5s@≥150~200%*10K / 10s@110%~150%*10K(Only Battery) | 5s@≥150%*12K /10s@110%~150%*12K(Only Battery) | 10s@≥118% *14K (With PV+ Battery) |                           |
| Efficiency                                       |                                                    |                                               |                                   |                           |
| Max. MPPT efficiency                             | 99.0%                                              |                                               |                                   |                           |
| Max. efficiency                                  | 93.5%                                              |                                               |                                   |                           |
| Max. charge / discharge efficiency               | 93.0%                                              |                                               |                                   |                           |
| Protection                                       |                                                    |                                               |                                   |                           |
| Over current / voltage protection(Y/N)           | YES                                                |                                               |                                   |                           |
| AC Short-circuit current protection(Y/N)         | YES                                                |                                               |                                   |                           |
| Grid monitoring(Y/N)                             | YES                                                |                                               |                                   |                           |
| DC / AC Surge protection                         | Type III                                           |                                               |                                   |                           |
| General                                          |                                                    |                                               |                                   |                           |
| Dimensions ( W*H*D mm )                          | 520*580*163mm / 20.5*22.8*6.4 in                   |                                               |                                   |                           |
| Weight                                           | 32.5kg / 71.7lbs                                   |                                               |                                   |                           |
| Ingress protection rating                        | IP20                                               |                                               |                                   |                           |
| Operating environment temperature range(°C)      | 0~45                                               |                                               |                                   |                           |
| Storage temperature range(°C)                    | -15~60                                             |                                               |                                   |                           |
| Relative humidity                                | 5% ~ 95%                                           |                                               |                                   |                           |
| Display & Communication interface                | LCD+RGB, RS485 / Wifi / CAN                        |                                               |                                   |                           |
| Warranty                                         | 2 years                                            |                                               |                                   |                           |
| Cooling method                                   | Smart cooling                                      |                                               |                                   |                           |
| Topology on AC / Battery side                    | Transformer-less / Transformer                     |                                               |                                   |                           |
| Altitude (m)                                     | <2000                                              |                                               |                                   |                           |
| Noise emission (typical)                         | <50dB                                              |                                               |                                   |                           |