



# HYBRID INVERTER

## HYX-H5K/6K/8K/10K/12K-HT



### Safe & Reliable

- Type II DC/AC surge protection, lightning-proof
- 300m AFCI detection with 0.5s rapid shutdown
- IP65, C4 salt spray resistance
- PV optimizers compatible, module-level shutdown

### Convenient & User-Friendly

- Compact design, 30-minute quick installation
- App-enabled quick setup, simple and efficient
- Intelligent layout with rapid module-level visualization
- UPS-grade seamless on/off-grid switching

### Profitable & Efficient

- Start-up of 160V, wide MPPT range for higher revenue
- 160% overload capacity, 150% instant off-grid overload
- 18A design, 35A battery fast charging/discharging

### Smart & Manageable

- Intelligent IV diagnostics for precise fault identification
- Module-level monitoring for precise fault positioning
- Scenario-based app with real-time energy monitoring
- Intelligent control for generators and heat pumps

## HYX-H5K/6K/8K/10K/12K-HT Technical Specifications

| Product Model                              | HYX-H5K-HT                                     | HYX-H6K-HT      | HYX-H8K-HT      | HYX-H10K-HT              | HYX-H12K-HT              |
|--------------------------------------------|------------------------------------------------|-----------------|-----------------|--------------------------|--------------------------|
| PV Input                                   |                                                |                 |                 |                          |                          |
| Max. Array Power                           | 10,000W                                        | 12,000W         | 16,000W         | 20,000W                  | 24,000W                  |
| Max. Input Power                           | 5,000W / 3,000W                                | 6,000W / 4,000W | 6,400W / 6,400W | 6,400W / (4,800W/4,800W) | 6,400W / (6,400W/6,400W) |
| Max. Input Voltage                         | 1,000V                                         |                 |                 |                          |                          |
| Start-up Voltage                           | 160V                                           |                 |                 |                          |                          |
| MPPT Operating Voltage Range               | 140 ~ 980V                                     |                 |                 |                          |                          |
| Max. Input Current                         | 36A (18 / 18)                                  |                 |                 | 54A (18 / 18*2)          |                          |
| Max. Short-circuit Current                 | 60A (30 / 30)                                  |                 |                 | 90A (30 / 30*2)          |                          |
| Number of MPPTs                            | 2                                              |                 |                 |                          |                          |
| PV input number(Number of String Per MPPT) | 2 (1 / 1)                                      |                 |                 | 3 (1 / 2)                |                          |
| AC Input / Output                          |                                                |                 |                 |                          |                          |
| Nominal Output Power                       | 5,000W                                         | 6,000W          | 8,000W          | 10,000W                  | 12,000W                  |
| Max. Output Apparent Power                 | 5,500VA                                        | 6,600VA         | 8,800VA         | 11,000VA                 | 13,200VA                 |
| Max. Input Apparent Power                  | 11,000VA                                       | 13,200VA        | 17,600VA        | 22,000VA                 | 26,400VA                 |
| Nominal Output Current                     | 3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V |                 |                 |                          |                          |
| Max. Output Current                        | 8.4A                                           | 10A             | 13.4A           | 16.7A                    | 20A                      |
| Max. Input Current                         | 16.7A                                          | 20A             | 26.7A           | 33.4A                    | 40A                      |
| Nominal Output Voltage                     | 7.6A                                           | 9.1A            | 12.2A           | 15.2A                    | 18.2A                    |
| THDi                                       | < 3%                                           |                 |                 |                          |                          |
| Frequency                                  | 45-55Hz; 5-65Hz                                |                 |                 |                          |                          |
| Adjustable Power Factor                    | 0.8 leading...0.8 lagging                      |                 |                 |                          |                          |
| DC Current Injection                       | < 0.5% In                                      |                 |                 |                          |                          |
| Back-Up(AC Output)                         |                                                |                 |                 |                          |                          |
| Nominal Output Power                       | 5,000VA                                        | 6,000VA         | 8,000VA         | 10,000VA                 | 12,000VA                 |
| Max. Continues Output Apparent Power       | 5,500VA                                        | 6,600VA         | 8,800VA         | 11,000VA                 | 13,200VA                 |
| Peak Output Power                          | 7,500W; 10s                                    | 9,000W; 10s     | 12,000W; 10s    | 15,000W; 10s             | 15,000W; 10s             |
| Nominal Output Current                     | 7.6A                                           | 9.1A            | 12.2A           | 15.2A                    | 18.2A                    |
| Max. Output Current                        | 11.4A                                          | 13.7A           | 18.2A           | 22.8A                    | 27.3A                    |
| Switch Time                                | < 10ms                                         |                 |                 |                          |                          |
| Battery                                    |                                                |                 |                 |                          |                          |
| Battery Type                               | LiFePO4                                        |                 |                 |                          |                          |
| Battery Voltage Range                      | 150 ~ 600V                                     |                 |                 |                          |                          |
| Max. Charge/Discharge Current              | 40A                                            |                 |                 |                          |                          |
| Max. Charge/Discharge Power                | 5,500W                                         | 6,600W          | 8,800W          | 11,000W                  | 13,200W                  |
| Efficiency                                 |                                                |                 |                 |                          |                          |
| Max. Efficiency                            | 98.60%                                         |                 |                 |                          |                          |
| European Weighted Efficiency               | 98.20%                                         |                 |                 |                          |                          |
| MPPT Efficiency                            | 99.90%                                         |                 |                 |                          |                          |
| Battery Charge/ Discharge Efficiency       | 97.50%                                         |                 |                 |                          |                          |
| Protection                                 |                                                |                 |                 |                          |                          |
| DC Insulation Resistance Detection         | Yes                                            |                 |                 |                          |                          |
| Residual Current Monitoring                | Yes                                            |                 |                 |                          |                          |
| DC Reverse Polarity Protection             | Yes                                            |                 |                 |                          |                          |
| DC/AC Surge Protection                     | Type II                                        |                 |                 |                          |                          |
| DC Switch                                  | Yes                                            |                 |                 |                          |                          |
| Anti-islanding Protection                  | Yes                                            |                 |                 |                          |                          |
| AC Over Current Protection                 | Yes                                            |                 |                 |                          |                          |
| AC Short-circuit Protection                | Yes                                            |                 |                 |                          |                          |
| AC Over Voltage Protection                 | Yes                                            |                 |                 |                          |                          |
| Grounded Fault Detection                   | Yes                                            |                 |                 |                          |                          |
| General Data                               |                                                |                 |                 |                          |                          |
| Operating Temperature Range                | -30 to + 60℃                                   |                 |                 |                          |                          |
| Relative Operating Humidity                | 0 ~ 100 %RH                                    |                 |                 |                          |                          |
| Max. Operating Altitude                    | 4,000m                                         |                 |                 |                          |                          |
| Cooling                                    | Natural Cooling                                |                 |                 |                          |                          |
| Display                                    | LED / App / Web                                |                 |                 |                          |                          |
| Communication                              | CAN / RS485 / WIFI / 4G / LAN                  |                 |                 |                          |                          |
| Weight                                     | 34kg                                           |                 |                 |                          |                          |
| Dimensions (W*H*D)                         | 542*478*186mm                                  |                 |                 |                          |                          |
| Degree of Protection                       | IP65                                           |                 |                 |                          |                          |