

## String Inverter

### HYX-S320K-HT

Version 1.4-202603

Design and specifications are subject to change without notice.



#### Ultimately Reliable

- Terminal Temperature Monitoring with Overheat Protection
- Smart String Disconnection, <25ms Fast Shutdown
- IP66, 1400+ Cumulative Rigorous Tests



#### Grid-Friendly

- Full Power Feed in Grid at SCR<1.2
- THDi <3% for Improved Power Quality



#### Highly Profitable

- 75A Design for Higher Output Power
- 14% Less Switching Loss, 99.03% Conversion Efficiency
- AI Dynamic MPPT, Boosting Power Generation by 5%



#### Smart & Manageable

- Intelligent IV Curve Scanning with 99% Fault Detection Accuracy
- Real-Time Monitoring with OTA for Online Maintenance

## Technical Specifications

### HYX-S320K-HT

| Product Model                | HYX-S320K-HT                       |
|------------------------------|------------------------------------|
| <strong>PV Input</strong>    |                                    |
| Max. Input Voltage           | 1500Vd.c.                          |
| Nominal Input Voltage        | 1080Vd.c.                          |
| Start-up Voltage             | 500Vd.c.                           |
| MPPT Operating Voltage Range | 480 ~ 1500Vd.c.                    |
| Max. Input Current per MPPT  | 75Ad.c.                            |
| Max. Short-circuit Current   | 120Ad.c.                           |
| Number of MPPT               | 6                                  |
| Max. Input Number per MPPT   | 5                                  |
| <strong>AC Output</strong>   |                                    |
| Nominal Output Power         | 320kW                              |
| Max. Apparent Power          | 352kVA                             |
| Nominal Output Voltage       | 3L/PE, 800Va.c.                    |
| Nominal AC Grid Frequency    | 50Hz/60Hz                          |
| Nominal Output Current       | 230.9Aa.c.                         |
| Max. Output Current          | 254Aa.c.                           |
| Adjustable Power Factor      | > 0.99 (0.8 leading...0.8 lagging) |
| THDi                         | < 3%                               |

Technical Specifications  
HYX-S320K-HT

| Product Model                    | HYX-S320K-HT       |
|----------------------------------|--------------------|
| Efficiency                       |                    |
| Max. Efficiency                  | ≥99.03%            |
| European Weighted Efficiency     | ≥98.8%             |
| MPPT Efficiency                  | 99.9%              |
| Protection                       |                    |
| Active Anti-islanding Protection | YES                |
| Residual Current Monitoring      | YES                |
| DC Reverse Polarity Protection   | YES                |
| DC Switch                        | YES                |
| AC Short-Circuit Protection      | YES                |
| AC Overvoltage Protection        | YES                |
| AC Overcurrent Protection        | YES                |
| DC Surge Protection              | Type II            |
| AC Surge Protection              | Type II            |
| Ground Fault Detection           | YES                |
| Smart String-level Disconnection | YES                |
| Smart Connector-level Detection  | YES                |
| General Data                     |                    |
| Operating Temperature Range      | -35 to + 60°C      |
| Relative Operating Humidity      | 0 ~ 100 %RH        |
| Operating Altitude               | 5000m              |
| Cooling                          | Smart Air Cooling  |
| Display                          | LED/WLAN+App       |
| Communication                    | RS485/HPLC         |
| Weight                           | 130kg              |
| Dimensions (W × H × D)           | 1120 × 820 × 380mm |
| Topology                         | Non-Isolated       |
| Degree of Protection             | IP66               |
| Overvoltage Level                | PV II/AC III       |