

String Inverter

HYX-S33K/36K/40K/50K-T1

Version 1.0-202604
Design and specifications are subject to change without notice.



Safe & Reliable

- IP66, 1,400+ Cumulative Rigorous Tests
- Type II DC/AC Surge Protection

Convenient & User-Friendly

- Compact and Lightweight Design, Plug and Play Installation
- App-Based Quick Setup

Profitable & Efficient

- 36A Input, 182&210mm Panels Supported
- 98.5% Conversion Efficiency, Wide MPPT Voltage Range, Higher Energy Yield
- 150% Oversizing Capability, Longer Full-Load Generation Time

Smart & Manageable

- Intelligent IV Diagnostics for Precise Fault Identification
- Real-Time Monitoring with OTA for Online Maintenance

Technical Specifications

HYX-S33K/36K/40K/50K-T1

Product Model	HYX-S33K-T1	HYX-S36K-T1	HYX-S40K-T1	HYX-S50K-T1
PV Input				
Max. Input Power	52.8kW	57.6kW	64kW	80kW
Max. Input Voltage	1,100V			
Nominal Input Voltage	600V			
Start-up Voltage	200V			
MPPT Operating Voltage Range	180 - 1,000V			
MPPT Full Load Voltage Range	450 - 850V			
Max. Input Current Per MPPT	36A			
Max. Short-Circuit Current	42A			
Number of MPPT	3			4
Max. Input Number Per MPPT	2			
AC Output				
Nominal Output Power	33kW	36kW	40kW	50kW
Max. Apparent Power	36.3kVA	39.6kVA	44kVA	55kVA
Nominal Output Voltage	3L / N / PE, 220 / 380V, 230 / 400V			
Nominal AC Grid Frequency	50 / 60Hz			
Nominal Output Current	50.2A / 380V 47.6A / 400V	54.7A / 380V 52A / 400V	60.8A / 380V 57.7A / 400V	76A / 380V 72.2A / 400V
Max. Output Current	55.2A / 380V 52.4A / 400V	60.2A / 380V 57.2A / 400V	66.9A / 380V 63.5A / 400V	83.6A / 380V 79.4A / 400V
Adjustable Power Factor	0.8 leading...0.8 lagging			
THDi	< 3%			

Technical Specifications

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Product Model	HYX-S33K-T1	HYX-S36K-T1	HYX-S40K-T1	HYX-S50K-T1
Efficiency				
Max. Efficiency			98.5%	
European Weighted Efficiency			98.1%	
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	
General Data				
Operating Temperature Range			-25 ~ + 60°C	
Relative Operating Humidity			0 ~ 100 %RH	
Operating Altitude			4,000m	
Cooling			Smart air cooling	
Display			LED / WLAN / APP	
Communication			RS485 / 4G / Wi-Fi	
Weight			35kg	
Dimensions (W*H*D)			602*492*224mm	
Topology			Non-Isolated	
Degree of Protection			IP66	
Overvoltage Level			PV II / AC III	