



# STRING INVERTER

HYX-S30K/33K/36K/40K/50K-T

## Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66 degree of protection, suitable for harsh installation environment

## Efficient

- Built in PID recovery to reduce power generation loss
- Support PLC communication and adapt to optimizer
- 40A large current, compatible with major module types

## Simple

- Support PLC communication
- Quick installation
- Rapid APP configuration, efficient and convenient

## Intelligent

- APP intelligent O&M, All-weather power station management
- Visual display, energy gain and data with real time dynamic update
- Intelligent IV curve diagnosis, fast debugging

# Technical Specifications

Product Model	HYX-S30K-T	HYX-S33K-T	HYX-S36K-T	HYX-S40K-T	HYX-S50K-T
<b>PV Input</b>					
Max. Input Power (W)	48,000	52,800	57,600	64,000	80,000
Max. Input Voltage (V)	1,100				
Rated Input Voltage (V)	600				
Start-up Voltage (V)	180				
MPPT Operating Voltage Range (V)	160 - 1000				
Max. Input Current Per MPPT (A)	40				
Max. Input Current Per String (A)	20				
Max. Short-circuit Current (A)	50				
Number of MPP Trackers	3	3	3	4	4
Max. Input Number Per MPP Tracker	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2
<b>AC Output</b>					
Rated Output Power (W)	30,000	33,000	36,000	40,000	50,000
Max. Apparent Power (VA)	33,300	36,300	39,600	44,000	55,000
Rated Output Voltage (V)	3L / N / PE, 220 / 380, 230 / 400				
Rated AC Grid Frequency (Hz)	50 / 60				
Rated Output Current (A)	45.6	50.2	54.7	60.8	76.0
Max. Output Current (A)	50.2	55.2	60.2	66.9	83.6
Adjustable Power Factor	0.8 leading...0.8 lagging				
Max. Total Harmonic Distortion	< 3%				
<b>Efficiency</b>					
Max. Efficiency	98.5%				
European Weighted Efficiency	98.1%				
MPPT Efficiency	99.9%				
<b>Protection</b>					
Anti-islanding Protection	Yes				
Insulation Monitoring	Yes				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
AC Overfrequency/Underfrequency Protection	Yes				
AC Overcurrent Protection	Yes				
AC Short-circuit Protection	Yes				
AC Overvoltage Protection	Yes				
AFCI	Yes				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
PID recovery	Optional				
<b>General Data</b>					
Operating Temperature Range (°C)	-25 to + 60				
Relative Operating Humidity (RH)	0 ~ 100 %				
Operating Altitude (m)	4,000				
Cooling	Smart Air Cooling				
Display	LED indicator, WLAN / Bluetooth+App				
Communication	RS485 / 4G / WIFI / HPLC				
Weight(kg)	48				
Demension (W*H*D mm)	615*460*255				
Topology	Transformerless				
Degree of Protection	IP66				
Overvoltage Level	PV II / AC III				

\* Design and specifications are subject to change without notice.

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