

Hybrid Inverter

HYX-H15K/20K/25K/30K-HT1

Version 1.4-2603

Design and specifications are subject to change without notice

**Safe & Reliable**

- Type II Surge Protection
- IP65, C4 Salt Spray Design
- AFCI (Optional), Ultimate Peace of Mind

**Convenient & User-Friendly**

- 30mins Quick Installation
- Easy Working Mode, Set and Forget
- Automatic ON/OFF-Grid Switching Time <10ms

**Profitable & Efficient**

- 160% PV Oversizing + 150% Backup Turbo Output
- 150~800V Wide Battery Voltage Range + 60A fast Charge/Discharge
- 20A PV Current Wide Adaptation

**Ultimate Experience**

- Smart Working Logic
- Intelligent Generator Control
- Mobile & PC Platform Management

Technical Specifications

HYX-H15K/20K/25K/30K-HT1

Product Model	HYX-H15K-HT1	HYX-H20K-HT1	HYX-H25K-HT1	HYX-H30K-HT1
PV Input				
Max. Array Power	30000W	40000W	50000W	60000W
Max. Input Power	(6000W/6000W) /(6000W/6000W)	(8000W/8000W) /(8000W/8000W)	(10000W/10000W) /(10000W/10000W)	(12000W/12000W) /(12000W/12000W)
Max. Input Voltage	1100Vd.c.			
Start-up Voltage	160Vd.c.			
MPPT Operating Voltage Range	140 ~ 1000Vd.c.			
Max. Input Current	80Ad.c. (20 × 2/20 × 2)			
Max. Short-circuit Current	120Ad.c. (30 × 2/30 × 2)			
Number of MPPTs	2			
PV input number(Number of String Per MPPT)	4 (2/2)			
AC Input/Output				
Nominal Input/Output Apparent Power	31500VA/15000VA	42000VA/20000VA	52500VA/25000VA	52500VA/30000VA
Max. Input/Output Apparent Power	33000VA/16500VA	44000VA/22000VA	55000VA/27500VA	55000VA/33000VA
Nominal Input/Output Current	47.8Aa.c./22.8Aa.c.	63.7Aa.c./30.4Aa.c.	79.5Aa.c./37.9Aa.c.	79.5Aa.c./45.5Aa.c.
Max. Input/Output Current	50.0Aa.c./25.0Aa.c.	66.7Aa.c./33.4Aa.c.	83.4Aa.c./41.7Aa.c.	83.4Aa.c./50Aa.c.
Output Voltage Range	3/N/PE, 220/380Va.c., 230/400Va.c., 240/415Va.c.			
Nominal Output Voltage	< 3%			
THDi	304 ~ 476Va.c.			
Frequency	50/60Hz			
Adjustable Power Factor	0.8 leading...0.8 lagging			
DC Current Injection	< 0.5% In			

Technical Specifications

HYX-H15K/20K/25K/30K-HT1

Product Model	HYX-H15K-HT1	HYX-H20K-HT1	HYX-H25K-HT1	HYX-H30K-HT1
Back-Up(AC Output)				
Nominal Output Power	15000W	20000W	25000W	30000W
Max. Continues Output Apparent Power	16500VA	22000VA	27500VA	33000VA
Peak Output Power	30000W; 10s	40000W; 10s	45000W; 10s	45000W; 10s
Nominal Output Current	22.8Aa.c.	30.4Aa.c.	37.9Aa.c.	37.9Aa.c.
Max. Output Current	45.5Aa.c.	60.6Aa.c.	68.2Aa.c.	68.2Aa.c.
Switch Time	< 10ms			
Generator				
Nominal Output Power	15000W	20000W	25000W	30000W
Max. Continues Output Power	16500W	22,000W	27500W	33000W
Nominal Output Current	22.8A	30.4A	37.9A	45.5A
Battery				
Battery Type	LiFePO4			
Battery Voltage Range	150 ~ 800Vd.c.			
Max. Charge/Discharge Current	60Ad.c.			
Max. Charge/Discharge Power	16500W	22000W	27500W	33000W
Efficiency				
Max. Efficiency	98.60%			
European Weighted Efficiency	98.20%			
MPPT Efficiency	99.90%			
Battery Charge/ Discharge Efficiency	97.70%			
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°C			
Relative Operating Humidity	0 ~ 100 %RH			
Max. Operating Altitude	4000m			
Cooling	Natural Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LED/App/Web			
Communication	CAN/RS485/PLC/WIFI/4G/LAN			
Weight	45kg			
Dimensions (W × H × D)	658 × 523 × 220mm			
Degree of Protection	IP65			
Mounting	Wall Mounted			