Three-Phase HV Hybrid Inverters

75~125kW

SBEON | Haier Energy

Model	HH3P-75KH-A	HH3P-80KH-A	HH3P-100KH-A	HH3P-110KH-A	HH3P-125KH-A
PV String Input Data					
Max. PV Array Power (Wp)	150000	160000	200000	220000	250000
Max. PV Input Voltage (V)	1100V				
MPP Voltage Range (V)	150~1000V				
Start-up Voltage (V)	180V				
Rated PV Input Voltage (V)	620V				
Max. Input Current per MPP Tracker (A)	42A*8	42A*8	42A*8	42A*10	42A*10
Max. Short-circuit Current per MPP Tracker (A)	60A*8	60A*8	60A*8	60A*10	60A*10
No. of MPP Trackers / Strings per MPPT	8 / 2	8 / 2	8 / 2	10 / 2	10 / 2
Battery Input Data					
Battery Type	Li-ion				
Battery Voltage Range (V)	200~950V				
Max. Charging / Discharging Current (A)	2*100A / 2*100A				
Max. Charging / Discharging Power (kW)	75kW	80kW	100kW	110kW	125kW
Number of Battery Inputs	2				
AC Output Data (On-grid)					
Rated AC Output Active Power (kW)	75kW	80kW	100kW	110kW	125kW
Rated AC Output Current (A)	113.6A	121.2A	151.5A	166.6A	189.3A
Rated Output Voltage (V)	220/380V, 230/400V				
AC Voltage Range (V)	270V to 480V				
Rated Grid Frequency / Range (Hz)	50Hz/60Hz, 45Hz~65Hz				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Grid Connection Form	TN-S, TN-C, TN-C-S, TT				
Total Current Harmonic Distortion (THDi)	<3%				
AC Input Data (On-grid)					
Rated AC Input Active Power (kW)	75kW	80kW	100kW	110kW	125kW
Rated AC Input Current (A)	108.3A	115.5A	144.3A	158.8A	180.4A
Rated Input Voltage (V)	220/380V, 230/400V				
Max. Continuous AC Passthrough, Grid to Load (A)	250A				
AC Output Data (Off-grid)					
Rated AC Output Active Power (kW)	75kW	80kW	100kW	110kW	125kW
Peak Output Power, Off-grid (W)	1.2 times rated power, 10 min; 1.4 times rated power, 100s 1.6 times rated power, 10s; 2 times rated power, 200ms				
Switching Time	<10ms				
Rated Output Voltage (V)	220/380V, 230/400V				
DC Injection Current	<0.5% In				
AC Input Data (Generator)					
Rated Input Power (kW)	75kW	80kW	100kW	110kW	125kW
Rated Input Voltage (V)	220/380V, 230/400V				
Rated Input Current (A)	108.3A	115.5A	144.3A	158.8A	180.4A
Efficiency					
Max. Efficiency	98.60%				
Euro Efficiency	98.30%				
Safety Protection					
Anti-islanding Protection	Yes				
DC Switch	Yes				
DC Reverse Polarity Protection	Yes				
AC Output Short Circuit Protection	Yes				
AC Output Overvoltage Protection	Yes				
Insulation Impedance Detection	Yes				
Residual Current Detection	Yes				
Shadow Management	Yes				
PID Recovery	Optional				
Arc Fault Circuit Interrupter (AFCI)	Optional				
Low Voltage Ride Through (LVRT)	Yes				
DC & AC Terminal Temperature Detection	Optional				
IV Scanning & Diagnosis	Yes				
Surge Protection Level	DC: Type II (Optional: Class I); AC: Type II				
AI SCR <1.2	Optional				
Communication					
Communication Mode	Wi-Fi / BLE / 4G / LAN (Optional)				
Monitoring Mode	iHaier App & Cloud				
General Data					
Max. Allowable Phase Imbalance	100%				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Altitude	3000m				
Type of Cooling	Active Cooling				
Device Weight (kg)	160				
Dimensions (W×H×D mm)	1170×800×400				
Topology	Non-isolated				
Ingress Protection (IP) Rating	IP66, C5				
Mounting Method	Wall Mounted				
Parallel Units	10 PCS				
DC Connector	MC4 Connector				
AC Connector	OT/DT Connector				
Battery Connector	OT/DT Connector				
Warranty	5 Years				

Disclaimer: Information is for reference only and does not constitute an offer or promise. SBEON may modify it without notice.