



System Specification

EAHI10K/15K/20KTH Series				
System component				
Number of battery modules	1	2	3	4
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery system model	EHBS-P5-TH			
Number of inverter	3			
Inverter mode	EAHI10K/15K/20KTH-S(optional)			
Rated power	10K/15K/20kW(optional)			
Dimensions(WxHxD)(mm)	650x1250x270	650x1600x270	650x1950x270	650x2300x270
Weight(kg)	120	175	230	285
Noise	≤25dB@EAHI10K, ≤45dB@EAHI15K, ≤50dB@EAHI20K			
Cooling type	Smart cooling			
Maximum altitude	3000m			
Operating temperature	-20℃ ~ +58℃			
Operating humidity	0~100%RH(Non-condensing)			
Display	LED and app			
Installation method	Floor-mounted			

Battery Specification

MODEL	EHBS-P5-TH
System component	
Battery type	LiFePO4
Module capacity	5.12kWh
Rated voltage	750Vdc
Voltage range	600~1000Vdc
Max. charge/discharge current	3.4A/5.5A
Communication interfaces	CAN/RS485
Dimensions(WxHxD)(mm)	650x370x270
Net weight	59
Topology	High frequency isolation
IP rating	IP66
Operating temperature	-25℃~ +55℃
Cooling mode/Heating mode	Natural cooling/PTC heating
Altitude	3000m
Noise level at 1 m	< 40dB
Installation method	Floor-mounted
Standards	
Safety regulation	IEC/EN 62619 2022, ISO 13849, IEC/EN 62040-1, IEC/EN 62477, IEC62109-1/2
EMC	IEC 61000-6-1, EN/IEC 61000-6-3
Transportation	UN 38.3

Hybrid Inverter Specification

MODEL	EAHI10KTH-S		EAHI15KTH-S		EAHI20KTH-S	
PV input parameter						
Max. input power	20kW		30kW		30kW	
Max. input voltage			1000Vdc			
Rated input voltage			650Vdc			
Start-up voltage			180Vdc			
Min. operating voltage			160Vdc			
MPPT voltage range			160~950Vdc			
Full power MPPT voltage range			625~800V			
Max. input current per MPPT	16A/16A				16A/32A	
Max. short circuit current per MPPT	24A/24A				24A/48A	
Number of MPPTs			2			
Number of input strings per MPPT	1/1				1/2	
Battery input parameter						
Battery type			Lithium battery			
Voltage range			650~980Vdc			
Max. charge/discharge current	15.4A/15.4A		23.1A/23.1A		30.8A/30.8A	
AC input and output (grid)						
Max. apparent power of grid	15kVA		22.5kVA		30kVA	
Max. input current	21.7A		32.6A		40A	
Input voltage range			320~480Vac			
Input frequency range			50±5Hz/60±5Hz			
Rated output power	10kW		15kW		20kW	
Max. apparent output power	11kVA		16.5kVA		22kVA	
Rated output voltage			3/N/PE, 380Vac/400Vac			
Rated output frequency			50 Hz/60Hz			
Rated output current	15.2A/14.5A		22.8A/21.7A		30.4A/29.0A	
Max. output current	16.7A/15.8A		25.1A/23.8A		33.5A/31.8A	
Power factor			>0.99(0.8 leading~0.8 lagging)			
THDI			≤3%(@ rated power)			
Generator input						
Max. input power	10kW		15kW		20kW	
Max. input current	15.2A		22.8A		30.4A	
AC output parameter (back-up load)						
Rated output power	10kW		15kW		20kW	
Max. apparent power	10kVA		15kVA		20kVA	
Rated output voltage			3/N/PE, 380Vac/400Vac			
Rated output frequency			50Hz/60Hz			
Rated output current	15.2A/14.5A		22.8A/21.7A		30.4A/29.0A	
Max. output current	15.2A		22.8A		30.4A	
THDV			≤3%(linear load)			
Switching time			≤10ms			
Efficiency						
Max. efficiency			98.2%			
MPPT efficiency			99.9%			
Others						
Protections	Over/under voltage, over/under-frequency, over load, output short-circuit, over temperature, residual current monitoring unit, output over-current,insulation resistance, anti-islanding, surge protection					
Surge protection	DC Type II/AC Type III					
Dimensions(WxHxD)(mm)	650x640x270mm					
Net weight(kg)	45					
Parallel operation	Supports 6 units in parallel connection					
Topology	Non-isolated					
IP rating	IP66					
Operating temperature	-25°C~+60°C					
Cooling mode	Natural cooling		Smart cooling			
Altitude	3000m					
Noise level at 1m	≤25dB		≤45dB		≤50dB	
Standards						
Grid connection	NC RFG+PTPIREE, VDE 0126, EN50549-1/10, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, PPDS, CEI 0-21					
EMC	IEC/EN 62109-1/-2, IEC62040-1, IEC62477, IEC62619:2022, EN 61000-6-1/-2/-3/-4					
Battery Distribution Box Specification						
MODEL PDU-SH-Y/PDU-SH-F						
Parameter						
Maximum current	60A					
Voltage range	300~1000Vdc					
Display method	LED					
Dimensions(WxHxD)(mm)	650x150x270					
Net weight(kg)	12					
IP rating	IP66					
Others						
Fixed base size(WxHxD)(mm)	650x80x270					