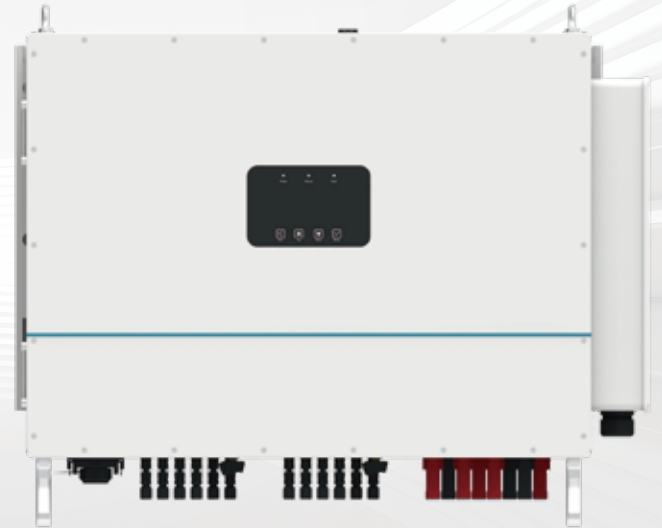


FHC Series

60-125kT Hybrid Inverter












FHC-60KT



FHC-125KT

FEATURES

-  Uses imported SiC & IGBT components for superior efficiency and reliability.
-  Multi-path MPPT design maximizes solar power generation.
-  Up to 42A string input current, ideal for high-power PV panels.
-  Smart generator integration with auto start/stop function.
-  <10ms transition between on/off-grid modes for seamless backup.
-  Supports up to 10 units in parallel for easy system scaling.
-  Compatible with major BMS protocols for flexible battery choice.
-  Built-in APP and cloud platform for remote management.
-  High-efficiency design, compact structure for easy transport, installation, and service.

GENERAL PARAMETERS



Model	FHC-60KT	FHC-125KT
DC Input(PV side)		
Max. PV power	100kW	250kW
Max. input voltage	1000V	
Start-up voltage	180V	
MPPT voltage range	150~950V	
Max. input current	4*42A	10*42A
Max.input short-circuit current	4*60A	10*60A
MPPT number/ Input strings number	4/8	10/20
Battery		
Battery type	LFP	LFP
Battery voltage range	168~950V	224~950V
Battery starting voltage	150V	200V
Max.charge/discharge current	100A*2	160A*2
Number of battery ports	2	2
AC Output (On-Grid side)		
Rated output power	60kW	125kW
Max.apparent output power	66kVA	137kVA
Rated grid voltage	3/N/PE,230V/400V	
Rated grid frequency	50/60Hz	
Rated grid output current	87A	180A
Power factor	>0.99	
THDi	<3%	
AC Input (On-Grid side)		
Max.input current	174A	253A
Rated input voltage	3/N/PE, 230V/400V, 50/60Hz	
AC Output (Off-Grid side)		
Rated output power	60kW	125kW
Overload capacity	110% normal operation; 120% for 1 minute; 150% for 10 seconds	
Rated output voltage	3/N/PE, 230V/400V, 50/60Hz	
Load unbalance	100% three-phase unbalanced	
Backup switching time	<10ms	
THDv	<3%	
Generator Input		
Max. input power	60kW	125kW
Rated input current	87A	180A
Efficiency		
MPPT efficiency	99.9%	
European efficiency	97.0%	
Max. efficiency	97.6%	
Protective function	Features islanding protection, AC output overcurrent protection, AC short-circuit protection, integrated DC switch, DC reverse connection protection, and leakage current detection	
General Parameters		
Topology	Non-transformer	
Protection level	IP66	
Cooling mode	Smart forced air cooling	
Operating temperature range	-30~60°C (Derating above 45°C)	
Altitude	3000m (Derating above 3000m)	
Dimensions (W*D*H)	650*750*290mm	1000*750*320mm
Weight (approx)	80kg	150kg
Display	4.3" LCD display + 3 LED status indicators + 4 buttons	
Communication	CAN, RS485, Ethernet, Dry contact, Optional: Wi-Fi, Bluetooth, 4G	