




FHC Series 25~50kW Three Phase Hybrid Inverter



FHC25~30KT-U2



FHC40~50KT-U2

<p>>20A</p> <p>Greater than 20A DC input current to better match high power panel</p>	<p>MPPTs</p> <p>Multi channel MPPTs design ensures PV power generation</p>	 <p>AC retrofit & easy installation</p>	<p>10 Parallel</p> <p>Supports parallel operation of up to 10 machines</p>
<p>20ms</p> <p>With UPS function switch time \leq 20ms</p>	<p>100%</p> <p>Support 100% three-phase unbalanced load output</p>	 <p>Type II AC & DC Surge protection</p>	 <p>Generator Interface Having an independent diesel generator engine interface</p>

Model	FHC-25KT-U2	FHC-30KT-U2	FHC-40KT-U2	UHC-50KT-U2
DC Input				
Max. PV Array Power [Wp]@STC	45000	45000	80000	100000
Max. DC Voltage [V]	1000			
MPPT Voltage Range [V]	180~900		180~850	
Rated DC Voltage [V]	600			
Start Voltage [V]	180		200	
Max. DC Input Current [A]	3*40		5*45	6*45
Max. DC Short Circuit Current [A]	3*50		5*56.5	6*56.5
Number of independent MPPT trackers	3		5	6
Number of Strings per MPPT	2			
Battery Parameters				
Battery Type	LiFePO ₄			
Battery Voltage Range [V]	180~800			
Max.Charging/Discharging Current [A]	100		150	
AC Output [On-grid]				
Rated AC Power [W]	25000	30000	40000	50000
Max. Apparent Power [VA]	27500	33000	44000	55000
Rated Output Current [A]@230Vac	36.3	43.5	58.0	72.5
Max. AC Output Current to Utility Grid [A]	39.9	47.9	63.8	79.8
Rated AC Voltage [V]	3+N+PE/3+PE, 380/400			
Rated Output Frequency [Hz]	50, 60			
Power Factor [cos φ]	0.8 leading-0.8 lagging			
Total Harmonic Distortion [THDi]	<3%			
AC Input [On-grid]				
Rated AC Voltage/Range [V]	3+N+PE/3+PE, 380/400			
Rated Output Frequency [Hz]	50, 60			
Max. Input Current [A]	47.2	56.6	150	
AC Output [Back-up]				
Max.Output Power [VA]	25000	30000	44000	55000
Peak Output Apparent Power [VA]	37500,3s	45000,3s	60000,5s	75000,5s
Rated AC Voltage [V]	3+N+PE/3+PE,380/400			
Rated Output Frequency/ [Hz]	50, 60			
Output THDv (@ Liner Load)	<3%			
AC Input [Generator]				
Max. Input Power [W]	29999	30000	40000	50000
Max. Input Current [A]@230V	43.3	43.5	58.0	72.5
Rated Input Voltage [V]	3+N+PE/3+PE, 380/400			
Rated Input Frequency [Hz]	50, 60			
Efficiency				
Max. Efficiency	98.0%			
Euro Efficiency	97.3%			
Max. Battery to AC Efficiency	96.0%			
Protection				
Protection	PV Reverse Polarity Protection, Anti-islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection			
DC switch	Integrated			
DC Surge Protection	II			
AC Surge Protection	II			
AFCI	Integrated			
RSD	Optional			
General Parameters				
Communication	Wi-Fi/Ethernet/CAN/RS485			
Topology	Transformerless			
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)			
Cooling Method	Smart Fan Cooling			
Ambient Humidity	0-100% Non-condensing			
Altitude [m]	≤3000m (>3,000 m derated operation)			
Ingress Protection	IP66			
Dimensions [W*H*D] [mm]	576*659*242		630*953*337	
Weight [kg]	50		93	