

risen

Barq Series 8~12kW Hybrid Inverter

STH8EA/STH10EA/STH12EA



Versatile
Expandability



Integrated MPPT
Controller



Wide PV Input
Voltage Range



Intuitive LCD
Display



Standalone Operation
Without Battery



Comprehensive
Protection Suite



Technical Specification

Model	STH8EA		STH10EA		STH12EA		
System Information							
Rated Power		8kVA/8kW		10kVA/10kW		12kVA/12kW	
Parallel Capability				No			
AC Output							
Voltage (Battery Mode)		Single Phase, 220VAC / 230VAC / 240VAC					
Conversion Efficiency (Peak)		94%					
Switching Time		10ms (UPS); 20ms (Household Appliances)					
Wave		Pure Sine Wave					
Battery Input							
Battery Voltage		48VDC					
Bulk Charging Voltage		58.4VDC (16 strings)					
Overvoltage Protection		63VDC					
Max. Input Power		8kW		10kW		12kW	
MPPT							
MPPT Voltage Range		60 ~ 450VDC					
Max. Input Voltage		500VDC					
Max. Input Current		18A*2					
AC Input							
AC Input Voltage		230VAC					
Voltage Range		170~280VAC (UPS); 90~280VAC (Household Appliances)					
Frequency Range		50 / 60Hz (Adaptive)					
Mains Power Max. Charge Current		120A		120A		120A	
Battery Max. Charge Current		140A		150A		160A	
General Data							
Weight		15kg					
Communication Interface		RS232 / RS485 / DRY CONTACT					
Appearance		With LCD Screen					
Operating Environment							
Operating Temperature		-10℃ ~+50℃					
Storage Temperature		-10℃ ~+50℃					
Humidity		5%~95% Relative Humidity (Non-condensing)					
Protection Level		IP20					
Packaging Size		595*475*182mm					
Package Weight		17.3kg					

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