

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			
Max. Input Power	10kW	11kW	11kW
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			
Packaged / Bare Unit Dimensions (W*H*D)	475*595*182mm / 438*560*152mm		
Gross / Net Weight	17.3kg / 16.25kg		
Communication Interface	RS232 / RS485 / DRY CONTACT		
Appearance	With LCD Screen		
Operating Environment			
Operating Temperature	-10°C ~+40°C		
Storage Temperature	-15°C ~+50°C		
Humidity	5%~95% Relative Humidity (Non-condensing)		
Protection Level	IP21		
Warranty ^[1]	5 years		

*Notes: ^[1] The entire machine is covered for 18 months, and individual parts for 36months.

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