STC SERIES

3-5 kW 48Vdc Double Conversion Online (VFI)



Product

This is a multi-function UPS, combining functions of inverter and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC charger priority and acceptable input voltage based on different applications.

STC comes in nominal power rating of 3,000VA and 5,000VA. It is designed to provide conditioned power to microcomputers and other sensitive electronic equipment. When it is generated, alternating current is clean and stable. However, during transmission and distribution it may be subject to voltage sags, spikes and complete power failure that may interrupt computer operations, cause data loss and even damage equipment. The UPS protects equipment from these disturbances. The UPS is a compact, on-line UPS. An on-line UPS continuously conditions and regulates its output voltage, whether utility power is present or not. It supplies connected equipment with clean sinewave power. Sensitive electronic equipment operates best from sine-wave power. For ease of use, the UPS features a LCD display to indicate all information for UPS, and provide kinds of function buttons.

Automatic Restart

The UPS is programmed to restart automatically when the mains returns after switching off due to end of backup time following prolonged power failure.

Communication

STC Series comes with an expansion slot for optional communication board which make it compatible with the main communication option: SNMP and AS40

Features

- True double-conversion
- Pure Sine-wave output
- Output Power Factor 1.0
- Configurable charging current via LCD setting
- Compatible with Generator
- · Cold Start capability
- Overload and short circuit protection
- Very powerful AC charger at 60A
- Optional parallel operation up to 9 units for Single Phase and Three Phase application
- Common 48Vdc battery pack for the parallel system
- Full Bridge inverter design to support half-wave load and unbalance load

Model		STC 1103-00L STC 11		FC 1105-00L		
Capacity		3000VA/30	OOW	50	5000VA/5000W	
Input						
Voltage		220/230/240 VAC				
Voltage Range		110-280 VAC @ 50% load ; 176-280 VAC @ 100% load				
Frequency Range		46~54 Hz or 56~64 Hz				
Power Factor		≥ 0.98 @ Nominal Voltage (100% Load)				
THDi		≤ 8%				
Output						
Output Voltage		220/230/240 VAC				
AC Voltage Regulation (Batt. Mode)		± 1%				
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz				
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz				
Current Crest Ratio		3:1				
Harmonic Distortion		\leq 3% THD (Linear Load, \leq 5 % THD (Non-linear Load)				
Transfer Time	AC Mode to Batt. Mode	Zero				
Transier fillie	Inverter to Bypass	4 ms (Typical)				
Waveform		Pure Sinewave				
Efficiency						
Line Mode		93%				
ECO Mode		99.50%				
Battery Mode		91%				
Battery						
Battery Voltage		48 VDC				
Floating Charge Voltage		54.6 VDC				
Overcharge Protection		66 VDC				
Charging Current (Max)			60 A			
Indicators						
LCD Panel		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD				
Physical						
Dimension, D x W x H(mm)			450 x 190 x 336			
Net Weight (kgs)		15			15.5	
Communication Interface			RS232	& USB		
Operating Environment						
Humidity			0 to 95% Relative Humidity(Non-condensing)			
Operating Tem <mark>perature</mark>			0°C to 50°C			
Storage Temperature			-15°C to 60°C			