SOETECK

SY-T Series 6kVA/10kVA Online Tower UPS

Power range

6 kVA / 10 kVA

Phase

1 phase in / 1 phase out

Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry.
Various industries such as taxation, healthcare, energy and electricity.

SYT6K/10K (Attachable & Expandable battery bank)

SYT6K/10K

Performance characteristics

- Strong overload capability
- High efficiency up to 94%
- Built-in back-feed relay
- Built-in OVCD protection
- Large charger up to 8A for longrun model
- Output power factor 1
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO mode for energy saving
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional 2.8" color touched LCD

Specification

Model		SYT6kVA		SYT10kVA	
Capacity		6000VA/6000W		10000VA/10000W	
		INPUT			
Nominal Voltage		208/220/230/240 VAC			
Voltage Range		110~300VAC ± 3 % at 50% load ; 176~300VAC ± 3 % at 100% load			
Frequency Range		46~54 Hz or 56~64 Hz / 40~70 Hz (In generator mode)			
Phase		Single phase with ground			
Power Factor		≧ 0.99 @ full load			
THDi		<4% @100% Load ; <6% @50% Load			
		OUTPUT			
Output Voltage		208/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz			
Frequency range (Battery mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≦1 % THD (Linear Load) ; ≦ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Battery mode)		Pure Sinewave			
Overload	AC Mode	100-105% Continue, 105-125% for 10 min, 125-150% 0.5min, > 150% immediately			
	Battery Mode	100%~110% 3min, 110%~130% for 0.5min, >130% immediately			
		EFFICIENCY			
AC mode		94%			
Battery mode		92%			
		BATTERY			
Standard Model	Battery Type	12 V / 7 Ah		12 V / 9 Ah	
	Numbers	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A			
	Charging Voltage	218.4 VDC ± 1%	240 VDC ± 1%	218.4 VDC ± 1%	240 VDC ± 1%
Long-run Model	Battery type	Lead Acid			
	Numbers	16-20**			
	Charging Current (max.)	1A / 2A / 4A / 6A / 8A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
		INDICATORS			
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
		PHYSICAL			
Standard Model	D * W * H (mm)	442 x 190 x 688		442 x 190 x 688	
	Net weight (kg)	51.5	60.5	60	70
Long backup time model	D * W * H (mm)	435 x 145 x 238			
	Net weight (kg)	8.6		9.7	
		ENVIRONMENT			
Operating Humidity		20-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 55dB @1Meter		Less than 58dB @1Meter	
		MANAGEMENT			
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.
**When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9
***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.