TCT Series

10–200kVA 3 phases Tower UPS



Power range

10~200kVA

Operation

3P/3P, 3P/1P,1P/1P,Online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Characteristics

- 7 inch colorful touch LCD with IoT functions.
- THDi < 2%.
- 3-level topology design, online efficiency up to 97%.
- 3-Phase UPS with internal batteries minimal support for 20 PCS batteries.
- Supports recording and exporting logs, and can store up to 10,0000 pcs event logs.

Model			TCT10EB/20B	TCT10EB/40B	TCT10EB/80B	TCT20EB/40B	TCT20EB/80B	TCT30EB/80B
			TCT10EL			TCT20EL		TCT30EL
Rate Power			10kVA			20kVA		30kVA
Main input	Input		3P5W (3P+N+PE)					
	Rate Voltage		380/400/415 VAC (L-L); 220/230/240 VAC (L-N)					
	Rate Freq.		50/60Hz					
	Input PF		>0.99					
	Current distortion		THDi < 2%					
	Voltage range		304~478 VAC (L-L) full load; 304~228 VAC (L-L) power derate from 100% to 50%					
	Freq. range		40-70Hz					
Battery	Rate voltage		±120 VDC	±240 VDC				
	Model	Internal BAT	UPS with internal batteries, 12 VDC /7~9Ah					
		External BAT	UPS for external batteries, Settable					
	Quantity	Internal BAT	20PCS	40PCS	80PCS	40PCS	80PCS	80PCS
		External BAT	Depend on external battery					
	Charging capacity	Internal BAT	Max. 50%*Pout					
		External BAT						
	Charging accuracy		±1%					
Bypass	Rate voltage		380/400/415 VAC (L-L); 220/230/240 VAC (L-N)					
	Voltage range		Range: -40%- +25% , Settable, default -20% ~ +15%					
	Frequency range		50/60Hz Settable ±1Hz ±3Hz ±5Hz					
Inverter	Rate voltage		380/400/415 VAC (L-L); 220/230/240 VAC (L-N)					
	Rate Freq.		50/60Hz					
	Output PF		1					
	Voltage accuracy		±1.0%					
	Output THDu		<1% (linear load), <5% (non-linear load according to IEC 62040-3)					
	Overload		110%,1 hour; 125%,10 mins; 150%,1 min; >150%, 200ms					
	Frequency accuracy		0.1%					
	Synchronize window		Settable, ±0.5Hz-±5Hz, default ± 3Hz					
	Slew rate		Settable, 0.5Hz/S-3Hz/S, default 0.5 Hz/S					
	Crest factor		3:1					
	Phase Accuracy		120° ±0.5°					
System	Efficiency		Up to 97%					
	Display		LED + 7 inch touch LCD					
	Certification- Safety		IEC62040-1, IEC60950-1					
	Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)					
	Certification- Perf.		IEC62040-3					
	IP degree		IP20					
	Configuration		USB, RS232, RS485, Dry contact, Air filter, Cold start					
	Option		SNMP card, AS400 card, Parallel kit					
	Environment		0-40 °C (operation); -25° C ~70 °C (storage); 0-95% (Humidity, non-condensing)					
Dimension (W*D*H) mm	Internal BAT		250*645*556	250*694*724	400*770*854	250*694*724	400*700*854	400*770*854
	External BAT		250*745*556					
Weight(kg)	Internal BAT		90	139	245	140	248	250
	External BAT		30.8			31.8		32.35

Model			TCT40EB/80B	/				
			TCT40EL	TCT60EL	TCT100EL	TCT120EL	TCT150EL	TCT200EL
Rate Power			40kVA	60kVA	100kVA	120kVA	150kVA	200kVA
Main input	Input		3P5W (3P+N+PE)					
	Rate Voltage		380/400/415 VAC (L-L); 220/230/240 VAC (L-N)					
	Rate Freq.		50/60Hz					
	Input PF		>0.99					
	Current distortion		THDi < 2%					
	Voltage range		304~478 VAC (L-L) full load; 304~228 VAC (L-L) power derate from 100% to 50%					
	Freq. range		40-70Hz					
Battery	Rate voltage		±240 VDC					
	Model	Internal BAT	UPS with internal batteries, 12 VDC /7~9Ah					
		External BAT	UPS for external batteries, Settable					
	Quantity	Internal BAT	80PCS	/				
		External BAT	Depend on external battery, 40PCS (default, 30-50 PCS, selected)					
	Charging capacity	Internal BAT	Max. 20%*Pout					
		External BAT						
	Charging accuracy		±1%					
Bypass	Rate voltage		380/400/415 VAC (L-L); 220/230/240 VAC (L-N)					
	Voltage range		Range: -40%- +25% , Settable, default -20% ~ +15%					
	Frequency range		50/60Hz Settable ±1Hz ±3Hz ±5Hz					
Inverter	Rate voltage		380/400/415 VAC (L-L); 220/230/240 VAC (L-N)					
	Rate Freq.		50/60Hz					
	Output PF		1					
	Voltage accuracy		±1.0%					
	Output THDu		<1% (linear load), <5% (non-linear load)					
	Overload		110%,1 hour; 125%,10 mins; 150%,1 min; >150%, 200ms					
	Frequency accuracy		0.1%					
	Synchronize window		Settable, ±0.5Hz-±5Hz, default ± 3Hz					
	Slew rate		Settable, 0.5Hz/S-3Hz/S, default 0.5 Hz/S					
	Crest factor		3:1					
	Phase Accuracy		120° ±0.5°					
System	Efficiency		Max. 97%					
	Display		LED + 7 inch touch LCD					
	Certification- Safety		IEC62040-1, IEC60950-1					
	Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)					
	IP degree		IP20					
	Configuration		USB, RS232, RS485, Dry contact, Air filter, Cold start					
	Option		SNMP card, AS400 card, Parallel kit					
	Environment		0-40 °C (operation); -25° C ~70 °C (storage); 0-95% (Humidity, non-condensing)					
Dimension (W*D*H) mm	External BAT		400*800*950	/				
	Internal BAT		250*728*650		350*950*900		500*900*1300	
Weight(kg)	External BAT		270	/				
	Internal BAT		66	72	91	100	143	