

# Online UPS 3Phase Out



## TTX Series

80-500KVA

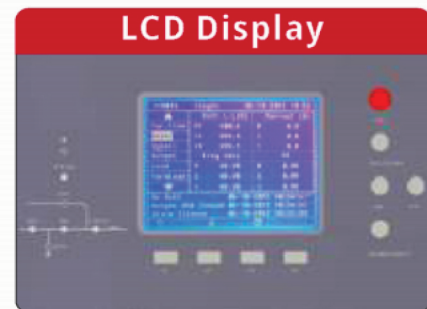
3:3 Phase PF:1.0



GTX Series UPS 80-500KVA use double conversation technology with a very advanced design criteria improves the performance and built-in output isolation transformer protects critical load.

### Features:

- True Online double-conversion with DSP control
- IGBT based Rectifier and Inverter
- High input power factor (>0.99)
- Output power factor 1.0
- Low input distortion: THD<3%
- Generator compatible
- Inbuilt galvanic isolation transformer
- Independent control on three inverter phases
- High instantaneous overload capacity
- High MTBF(> 200,000h) and Low MTTR
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- Standard emergency power off (EPO)
- N+X redundancy parallel up to 6 units



5.7" LCD Display

## ▶ Technical Specification of TTX Series 80-500 KVA

MODEL	TTX3380L50	TTX33100L50	TTX33120L50	TTX33160L50	TTX33200L50	TTX33250L50	TTX33300L50	TTX33400L50	TTX33500L50
Capacity	80 kVA / 80 kW	100 kVA / 100 kW	120 kVA / 120 kW	160 kVA / 160 kW	200 kVA / 200 kW	250 kVA / 250 kW	300 kVA / 300 kW	400 kVA / 400 kW	500 kVA / 500 kW
<b>INPUT</b>									
Input wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Voltage range	304 ~ 346 V (derating 10%), 346 ~ 456 V (full load)								
Rated frequency	50 / 60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	≥ 0.99								
Total harmonic distortion (THDi)	≤ 3%								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
<b>OUTPUT</b>									
Output wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output voltage regulation	± 1%								
Output frequency regulation	50 / 60 Hz ± 0.1% in battery mode								
Waveform	Sinusoidal								
Power factor	1								
Voltage distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
<b>BATTERIES</b>									
DC voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery: 614.4 Vdc								
Number of batteries	Lead acid battery: 12 V x 50 pcs ( support 48~52 pcs) Lead acid battery: 2 V x 300 pcs ( support 288~312 pcs) Lithium iron phosphate battery: 3.2 V x 192 pcs ( support 192/208 pcs)								
Charging current	Charging rate (settable) × battery capacity (settable) × number of battery groups (settable)								
<b>SYSTEM</b>									
Efficiency	Line mode ≥ 96% ECO mode ≥ 99%				Line mode ≥ 96% ECO mode ≥ 99%				
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage and fan failure								
Communications	Standard configuration: RS232, RS485, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms								
Display	7 inches LCD touch screen								
<b>OTHERS</b>									
Operating temperature	0 ~ 40°C								
Storage temperature	- 25°C ~ 55°C (without battery)								
Relative humidity	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1 m	< 65 dB							< 70 dB	
Dimensions (W × D × H) (mm)	800 × 800 × 1800			800 × 860 × 1700	1210 × 860 × 1950			2380 × 860 × 1950	
Packaged dimensions (W × D × H) (mm)	900 × 900 × 2050			900 × 1000 × 1950	1300 × 1000 × 2200			1300 × 1000 × 2200 (× 2)	
Net weight (kg)	580	630	680	790	1135	1275	1355	2090	2300
Gross weight (kg)	630	680	730	840	1200	1340	1420	2200	2410

Mfd.by:

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Dealer: