



7.0 Inch Touch Display



T Series Tower UPS

T Series Battery Tower

Small footprint online double conversion tower UPS with Power Factor 1.0 output, three stage battery charging and a color display.

Extend backup runtimes by adding up to four T Series Battery Towers.

T Series UPS is the ideal power system for banking, and Small Medium Enterprise (SME) servers, computers and communication systems.

## FEATURES

### Clean power

Output Power Factor of 1.0  
Frequency converter mode

### Low energy consumption

High input power factor of 0.99% minimizes energy consumption  
Up to 94% efficiency  
ECO Mode available for higher efficiency up to 99%

### Advanced battery management

Three stage intelligent charging up to 20 A  
Displays estimated battery runtime and tests for battery capacity  
Internal capacity for up to 60x 12V9AH batteries

### Flexible and compatible

Small foot print compact tower, up to four units in parallel  
Color display in multiple languages with mini diagrams and 1,000 event history  
Dual Input – static and manual (maintenance) bypass  
Wide input voltage compatible with low grid or generator voltage  
Emergency Power Off (EPO)  
UPS management PC software

### Power Options

Matching external battery tower  
Parallel cable

### Management Options

Dry contact relay  
SNMP card

## TRANSFORMERLESS ONLINE DOUBLE CONVERSION UPS

### T Series UPS 10-15-20 kVA 1.0 PF 208 Vac UL with Battery (7.0 Display)

Model	T 3310UL-NB-D7	T 3315UL-NB-D7	T 3320UL-NB-D7
Capacity	10 kVA / 10 kW (1.0 PF)	15 kVA / 15 kW (1.0 PF)	20 kVA / 20 kW (1.0 PF)
Efficiency	up to 94 %	up to 94 %	up to 94 %
Charge current	20 A max (1.35 A default)	20 A max (2.70 A default)	20 A max (4.05 A default)
Internal battery (set) back up, full load	±120 Vdc (20 x 12V 9 Ah) <4.6 minutes	±120 Vdc (20 x 12V 9 Ah x 2) <6.2 minutes	±120 Vdc (20 x 12V 9 Ah x 3) <7.0 minutes
Max battery capacity	(60 x 12V 9Ah)	(60 x 12V 9Ah)	(60 x 12V 9Ah)
Bypass breaker	50 A	63 A	80 A
Net weight Kg	136	188	239
H x W x L mm	868 x 250 x 900		

#### AC Input

Rated voltage	208/120 or 220/127 Vac 50/60Hz 3 Phase (4 wire + Ground)
Voltage range	-40 %, +25 % (72 - 150V or 76 - 159V) at 50% load, -20 %, +25 % (96 - 150V or 102 - 159V) at 100% load
Input power factor	0.99
Input frequency	40 - 70 Hz (auto)
Current THDi	≤2 % at 100% load, non-linear
Bypass range	V max +25 % (default +20), V min -40 % (default -30) Hz max +10% (default+1%), Hz min -10% (default -1%)

#### AC Output

Rated voltage	208/120 or 220/127 Vac 50/60Hz 3 Phase (4 wire + Ground)
Output frequency	Synchronous with the network on-line mode / input frequency ≥ +10 % (±1 %, ±2 %, ±4 %, ±5 % optional) output 50/60 Hz ±0.1 % Hz / battery mode output 50/60 Hz ±0.1 % Hz
THDv	≤1 % linear load, ≤3 % non-linear load
Overload AC mode	≤150 % 1 min, ≤125 % 10 min, ≤110 % 60 min

#### General Specifications

Color Display	177 mm / 7 inch Touch Screen
Communication	RS232, RS485, USB, dry contact, communications slot (2), parallel (2), backfeed protection, remote EPO
Protocol / PC Software	Megatec, Modbus over RS232 / Muser 4000, HP Tools
Noise	<58 dB
Temperature	Operating 0 to +40° C
Altitude	>1500 m output is de-rated
Humidity	≤95% non-condensing

#### Standards

Safety / EMC	UL 1778, IEC 62040-1, IEC 60950-1 / FCC Part 15, IEC 62040-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8
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### T Series Battery Tower UL for UPS 10-15-20 kVA 1.0 PF 208 Vac

Model	T 10A 80-009-120 BT-NB-UL	T 20A 80-009-120 BT-NB-UL
Use with T Series UPS 208V	T 3310UL-NB-D7	T 3315UL-NB-D7, T 3320UL-NB-D7
Internal battery capacity	±120 Vdc (20/40/60/80 pcs 12V 9Ah)	120 Vdc (20/40/60/80 pcs 12V 9Ah)
Breaker	2 pcs 63 A / 440 Vdc 2 pin	125 A / 400 Vdc 4 pin
H x W x L mm / (Net weight kg)	868 x 250 x 828 / (243 kg)	
Standards	UL 1778	

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