



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 (40% linear load)
Input frequency	40 - 70 Hz (auto)
Current THDi	≤2 % (100% non-linear load)
Bypass range	V max +25 % (default +20), V min -40 % (default -30) Hz max +10% (default+10%), Hz min -10% (default -10%)

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
Internal battery capacity	±120 Vdc (40/60/80 pcs 12V 9Ah)	±120 Vdc (40/60/80 pcs 12V 9Ah)
Breaker	3P 63 A / 400Vac/500Vdc	3P 125 A / 480Vac/500Vdc
H x W x L mm / (Net weight kg)	868 x 250 x 900 mm / (261 kg)	
Standards	UL 1778	