

LIEBERT® TDU

TRANSFORMER DISTRIBUTION UNIT

Quick Installation User Guide



SAVE THESE INSTRUCTIONS:

This manual contains important instructions that are to be followed during installation and maintenance of the TDU.

IMPORTANT: Before installing, connecting to supply or operating your Liebert TDU, please review the Safety and Regulatory sheet.

INSTALLATION

1. Inspecting the TDU

Inspect the TDU for any signs of obvious damage. If damage is visible, do not proceed and call our warranty support line at 1-800-222-5877 menu option 3, or email at microups.warranty@VertivCo.com.

2. Choosing a location

Install in a temperature-controlled environment free of corrosive and conductive contaminants. Avoid locations near heat or water sources and exposed to direct sunlight. For proper ventilation, leave four inches clearance on all sides of the TDU. The input outlet should be nearby and easily accessible.

3. Installing the TDU

The TDU may be installed in a rack by attaching the brackets to the TDU, installing the rail kit in the rack if needed, then installing into the rack. The TDU may also be installed in the vertical/tower orientation.

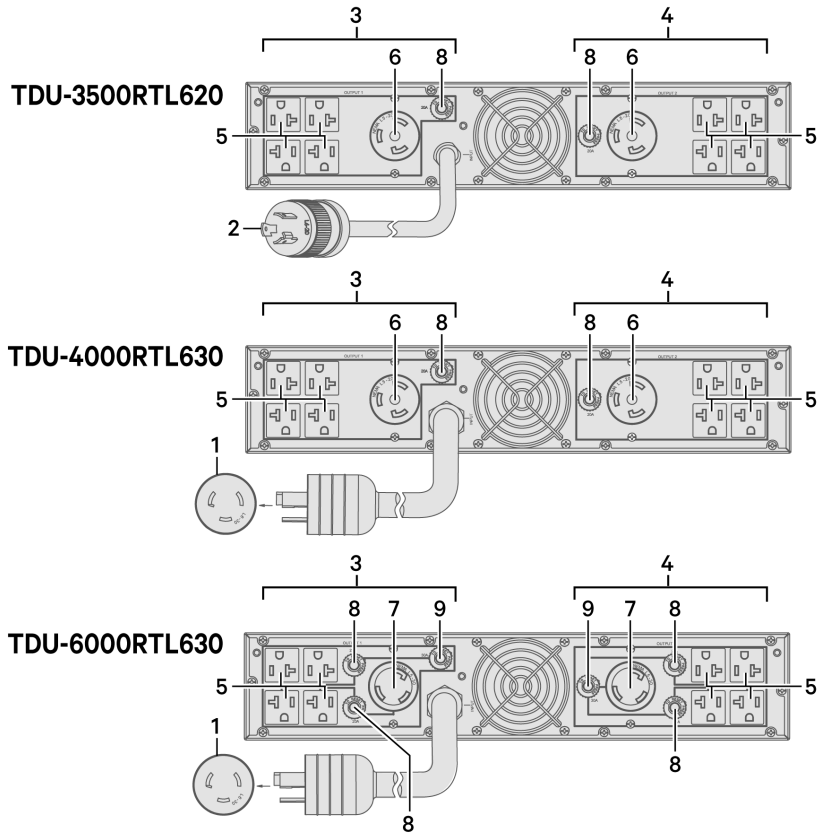
NOTE: This TDU is not for use in a computer room as defined in the standard for the protection of electronic computer/data processing equipment of ANSI/NFPA 75.

CONNECTIONS

1. Connecting Loads

There are two groups of five outputs, one on each side of the fan. Connect loads to each

MODEL DESIGN CONFIGURATIONS



#	DESCRIPTION
1	NEMA L6-30 Input Cable
2	NEMA L6-20 Input Cable
3	Output Group 1
4	Output Group 2
5	NEMA 5-15/20 Output Receptacles
6	NEMA L5-20R Output Receptacles
7	NEMA L5-30R Output Receptacles
8	20A Output Breakers
9	30A Output Breakers

group not exceeding the group rating or breaker rating. See Specifications.

2. Connecting Input

Ensure that all the loads are first powered off. Connect the TDU input to only a Liebert

UPS with an output voltage rated to 200-240VAC.

NOTE: When connecting to a Liebert® GXT4™ series UPS, the UPS must be configured to start on inverter. See the UPS User Guide for Instructions.

Input Voltage (Vac)	Output Voltage (Vac, 1Ø)	
	208V Rotary Switch Position	240V Rotary Switch Position
200	-	100
208	120	-
220	125	110
230	-	115
240	-	120

SPECIFICATIONS

MODELS			
	TDU-3500RTL620	TDU-4000RTL630	TDU-6000RTL630
Total Rating @ 208 VAC input	3440 VA / 3440 W	4000 VA / 4000 W	5050 VA / 5050 W
Output 1 Max	1750 VA / 1750 W	2000 VA / 2000 W	3000 VA / 3000 W
Output 2 Max	1750 VA / 1750 W	2000 VA / 2000 W	3000 VA / 3000 W
INPUT			
Voltage Range	200-240 VAC		
Frequency Range	60/50 Hz		
Plug	L6-20	L6-30	L6-30
OUTPUT			
Receptacles	“(8) NEMA 5-15/20R, (2) L5-20R”	(8) NEMA 5-15/20R, (2) L5-20R	(8) NEMA 5-15/20R, (2) L5-30R
Protection	(2) 20A breakers	(2) 20A breakers	“(4) 20A breakers, (2) 30A breakers”
Voltage Regulation	120 VAC (100/110/115/125 VAC)		
Frequency Range	Same as Input		
Efficiency	94%		
PHYSICAL			
Unit Dimensions,	W x D x H, in (mm) - 438 x 525 x 88 in (430 x 574 x 85 mm)		
Shipping Dimensions	W x D x H, in (mm) - 258 x 672 x 550 in (607 x 270 x 747 mm)		
Unit Weight (kg)	47.2		
Shipping Weight (kg)*	~50.4		
OPERATION ENVIRONMENT			
Temperature	32-104°F (0-40°C)		
Elevation	Up to 3,000m @ 25°C without derating		
Humidity	0-95 % RH (non-condensing)		
Noise Level	Less than 55dB		
COMPLIANCE			
Safety	UL 1778		
EMC	FCC Part 15, Class B		
ESD	EN61000-4-2; Air discharge: Level 3; Contact discharge: Level 2		
Susceptibility	EN61100-4-3, Level 3		

To contact Vertiv Technical Support: visit www.VertivCo.com

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