

User Manual

N1C

N1C.LR-3TDU

N1C.LR-6TDU

Table of Contents

- 1. Important Safety Warning..... 1
 - 1-1. Transportation 1
 - 1-2. Preparation 1
 - 1-3. Installation..... 1
 - 1-4. Operation..... 1
 - 1-5. Maintenance, Service And Faults..... 1
- 2. Installation And Setup 2
 - 2-1. Rear Panel View 2
 - 2-2. Install The TDU 3
 - 2-3. Setup The TDU 3
- 3. Operations..... 4
- 4. Storage and Maintenance..... 4
- 5. Specifications 5

1. Important Safety Warning

Please comply with all warnings and operating instructions in this manual strictly. Save this manual properly and read carefully the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully

1-1. Transportation

- Please transport the TDU system only in the original package to protect against shock and impact.

1-2. Preparation

- Condensation may occur if the TDU system is moved directly from cold to warm environment. The TDU system must be absolutely dry before being installed. Please allow at least two hours for the TDU system to acclimate the environment.
- Do not install the TDU system near water or in moist environments.
- Do not install the TDU system where it would be exposed to direct sunlight or near heater.
- Do not block ventilation holes in the TDU housing.

1-3. Installation

- Do not connect appliances or devices which would overload the TDU system to the TDU output sockets.
- Place cables in such a way that no one can step on or trip over them.
- The TDU can be operated by any individuals with no previous experience.
- Connect the TDU system only to an earthed shockproof outlet which must be easily accessible and close to the TDU system.
- Please use only UL-marked power cables to connect the loads to the TDU system.
- When installing the equipment, it should ensure that the sum of the leakage current of the TDU and the connected devices does not exceed 3.5mA.

1-4. Operation

- Do not disconnect the mains cable on the TDU system or the building wiring outlet (shockproof socket outlet) during operations since this would cancel the protective earthing of the TDU system and of all connected loads.
- Prevent no fluids or other foreign objects from inside of the TDU system.

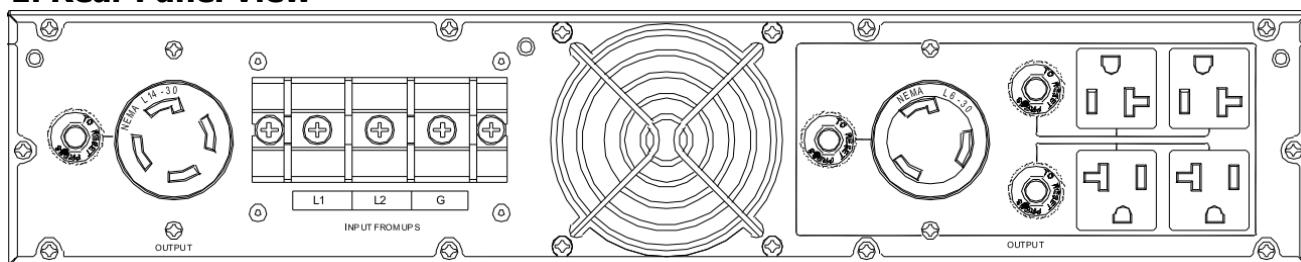
1-5. Maintenance, Service And Faults

- The TDU system operates with hazardous voltages. Repairs may be carried out only by qualified maintenance personnel.
- Do not dismantle the TDU system.

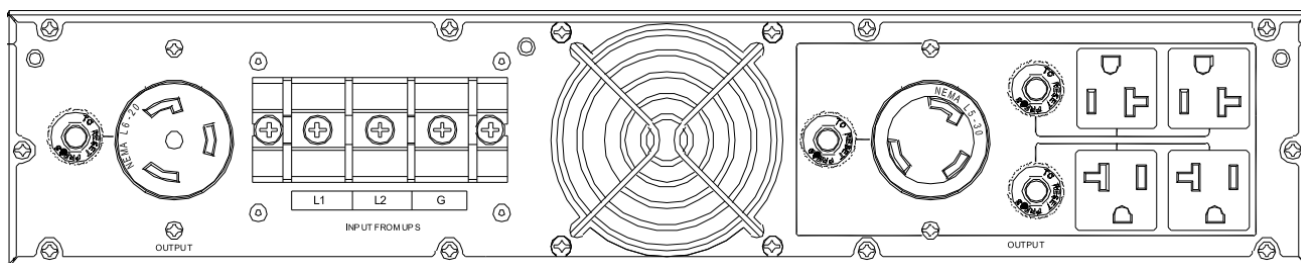
2. Installation And Setup

NOTE: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. Please keep the original package in a safe place for future use.

2-1. Rear Panel View



N1C.LR-6TDU



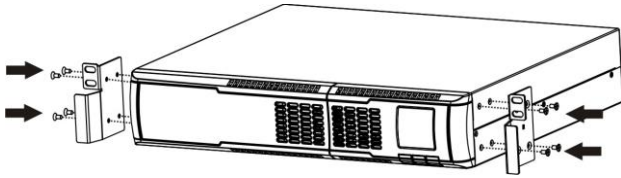
N1C.LR-3TDU

1. Output receptacles L14-30R:
2. Output receptacles L6-30R:
3. Output receptacles 5-20R:
4. Output receptacles L6-20R:
5. Output receptacles 5-30R:
6. AC input
7. Output circuit breaker

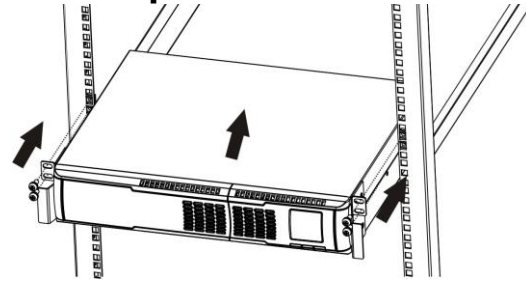
2-2. Install The TDU

Rack-mount Installation

Step 1



Step 2



2-3. Setup The TDU

Step 1: TDU input connection

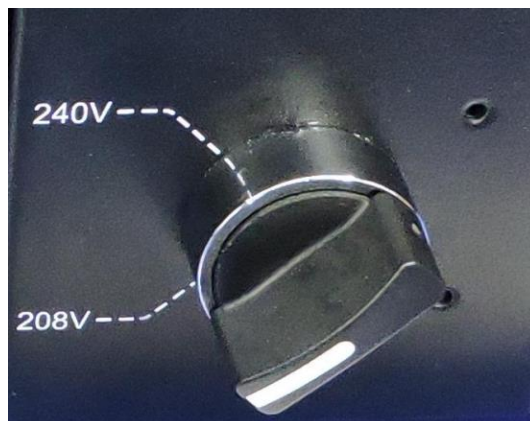
Plug the TDU into a two-pole, three-wire, grounded receptacle only. Avoid using extension cords.

Step 2: TDU output connection

There are Three groups of outputs: each group of output can support different kind of voltage and load, please connect to the correct socket as required.

3. Operations

Operate the Rotary Switch to adjust the output voltage.



For [5-20R](#), [L5-30R](#) output

Input Voltage (Vac)	Output voltage (Vac, 1Ø)	
	208V Rotary Switch Position	240V Rotary Switch Position
200	-	100
208	120	-
220	127	110
230	-	115
240	-	120

For [L6-20R](#), L6-30R, L14-30R(L1-L2) output

Input Voltage (Vac)	Output voltage (Vac, 1Ø)	
	208V Rotary Switch Position	240V Rotary Switch Position
200	-	200
208	240	-
220	254	220
230	-	230
240	-	240

4. Storage and Maintenance

Store the TDU covered and upright in a cool, dry location.

Storage Temperature	Storage Humidity
-15°C - 50°C	0% to 95% no condensing

5. Specifications

MODEL		N1C.LR-3TDU	N1C.LR-6TDU
CAPACITY		5520 VA / 5520 W	5760 VA / 5760 W
INPUT			
Acceptable Voltage Range		200-240 VAC	
Frequency Range		60/50 Hz	
OUTPUT			
Voltage Regulation		120 VAC (100/110/115/127 VAC) 240 VAC (200/220/230/240 VAC)	
Output Current		24A for Output receptacles L14-30R: 24A for Output receptacles L6-30R: 16A for Output receptacles 5-20R:	24A for Output receptacles 5-30R: 16A for Output receptacles 5-20R: 16A for Output receptacles L6-20R:
Frequency Range		Same as input	
EFFICIENCY			
AC Mode		95% max	
PROTECTION			
Full Protection		Breaker	
Standard Model	Dimension, DXWXH	525 x 438 x 88(mm) /20.6 x 17.2 x 3.46 (inches)	
	Net Weight	47.2(kg)/ 104lbs	
ENVIRONMENT			
Operating Humidity		0-90 % RH @ 0- 40°C (non-condensing)	
Noise Level		Less than 55dB	