

User's Manual for

DT30U12V-NA3

DT30U12V-NA3-G



Desktop Battery Backup Unit (DT-BBU)

IMPORTANT SAFETY WARNINGS (SAVE THESE INSTRUCTIONS)

This manual contains important instructions regarding the installation and operation of this device.
Read this manual thoroughly before attempting to unpack, install or operate this device.

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range.)

CAUTION! To reduce the risk of electric shock, do not remove the cover except to service the battery. No user serviceable parts are inside except the battery.

CAUTION! Risk of fire or explosion if battery is replaced with an incorrect type. Dispose of used batteries according to the instructions.

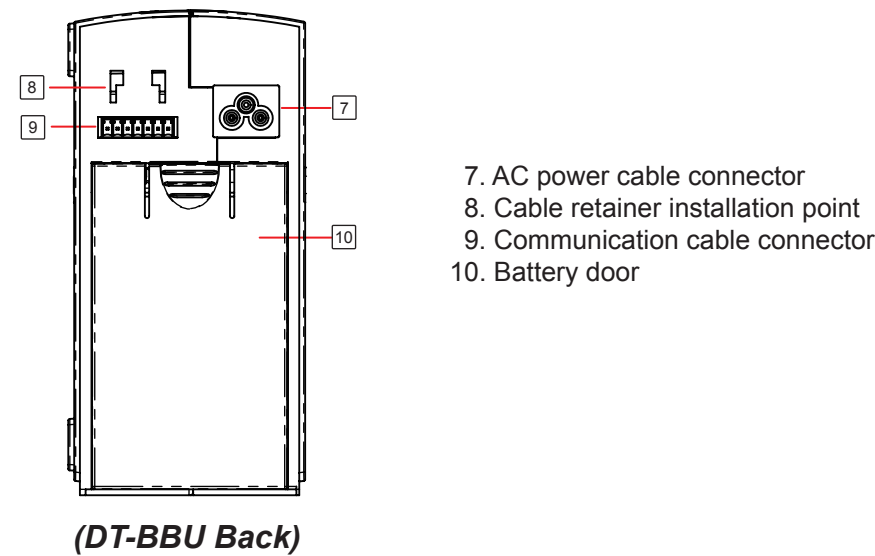
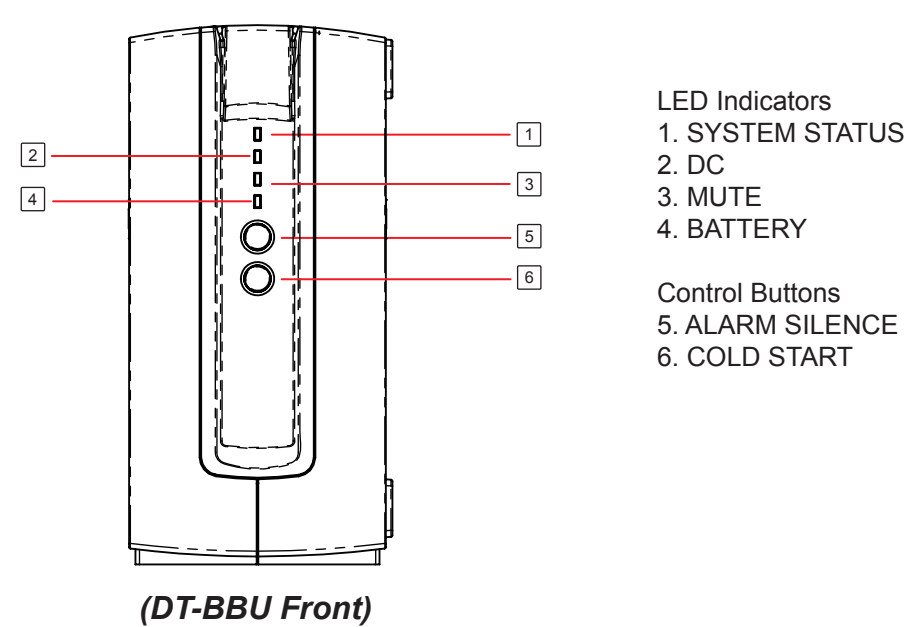
INTRODUCTION

The DT-BBU is intended to be deployed with a desktop Indoor Optical Network Terminal inside a climate controlled and protected customer dwelling.

The battery backup unit can be placed on table top or mounted on a wall inside the living area of the dwelling rather than in its garage or basement.

The DT-BBU powers the ONT not only during the normal condition but provides battery power in the event of a power outage.

OVERVIEW



UNPACKING

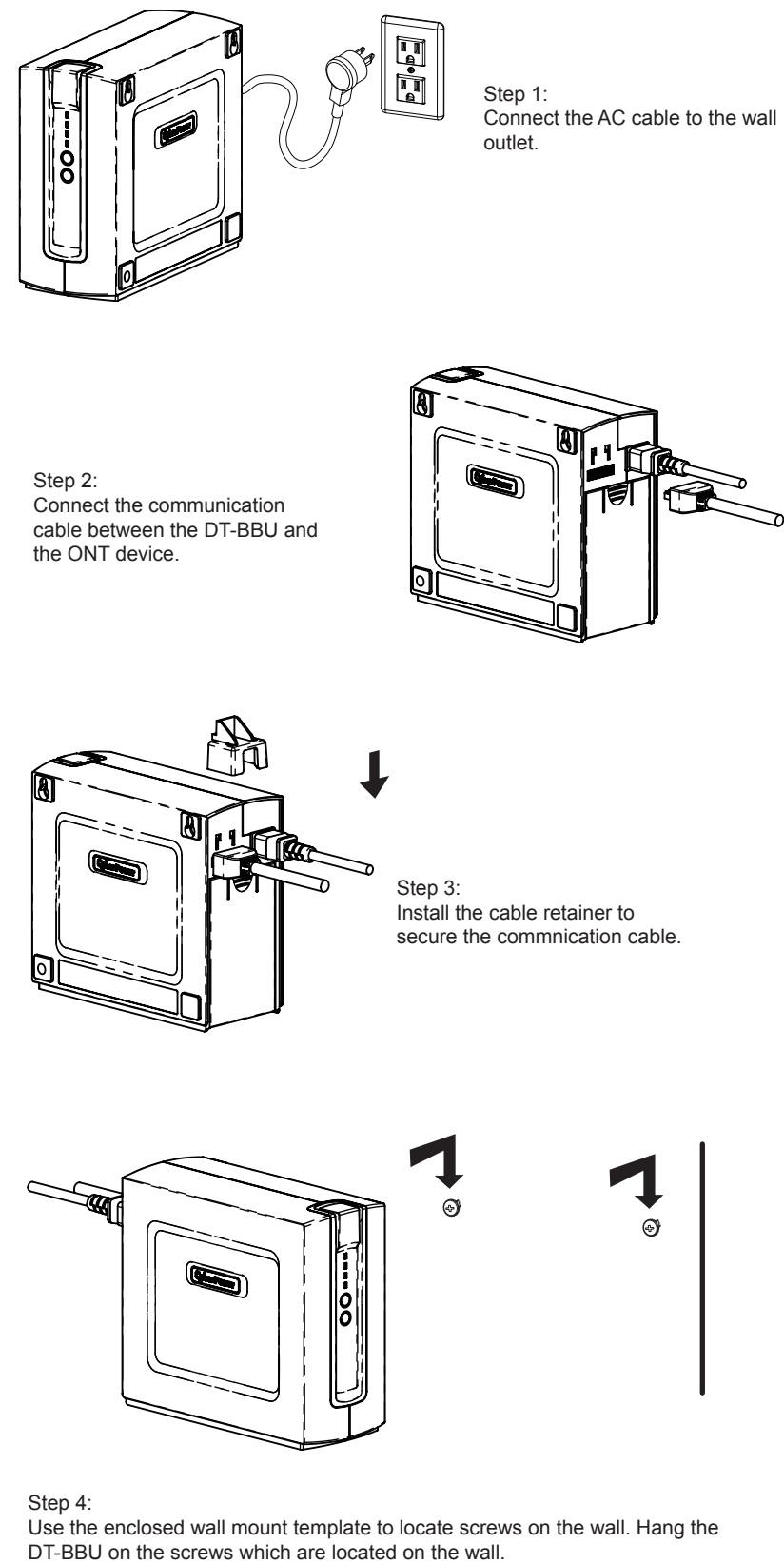
Inspect the Battery Backup Unit upon receipt. The box should contain the following:
(1) Desktop battery backup unit; (1) AC power cable; (1) Cable retainer;
(2) Cable ties; (1) User's manual; (1) Wall-mounted installation template

INSTALLATION

DESKTOP USE:

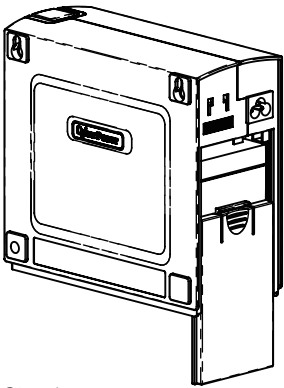
- 1.) Open the battery door at the back of the DT-BBU and connect the battery wires.
- 2.) Plug AC power cable into wall outlet.
- 3.) Connect the communication cable and simply place the DT-BBU unit on or underneath desk to begin backing up the optical home network.

WALL MOUNT USE:

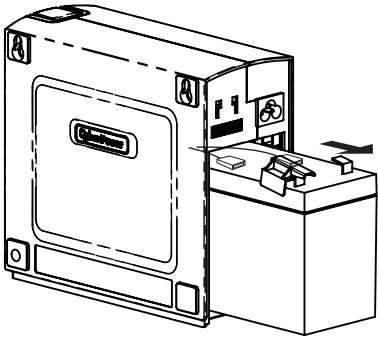


BATTERY REPLACEMENT

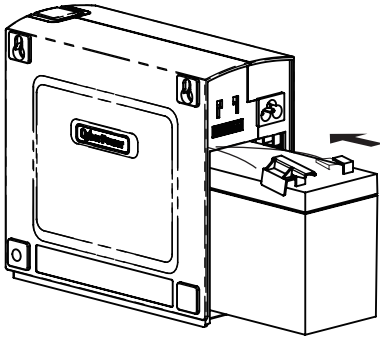
This battery is hot-swappable. As long as utility power is on, you may leave the UPS and connected equipment on while replacing a new battery.



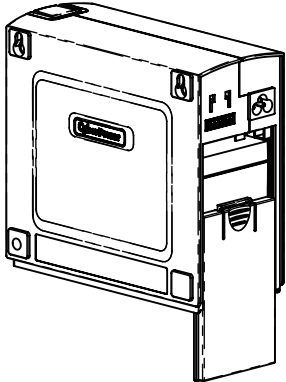
Step 1:
Slide off the battery cover at the back of the DT-BBU unit.



Step 2:
a. Remove the battery from the enclosure.
b. Disconnect both battery cable connectors.



Step 3:
a. Install the new battery by connecting the red lead to the positive terminal and the black lead to the negative terminal.
b. Slide the battery back into the compartment.



Step 4:
Replace battery cover to resume normal operation.

Operation

Start-Up: Open the battery door at the back of the DT-BBU and connect the battery wires. Then connect power cable of DT-BBU to AC power. The unit is now ready to be placed into service. The unit has four LED indicators and two control buttons. The table below listed the functions of each.

Buttons and LED Indicators

Indicator	Color	Condition
System Status	Green	Indicates normal mode of operation.
DC	Green	Indicates the battery is supplying the power. At 45% battery capacity, this LED will flash and alarm will beep 4 times per minute.
Mute	Yellow	Flashing indicates the audible alarm is disabled for 24 hours. Solid indicates the alarm is disabled until manually reactivated.
Battery	Red	Battery replacement required or battery is absent.
Alarm Silence Button	Gray	Press the button to silence the audible alarm for 24 hours. Press again to re-activate the audible alarm. Press and hold the button for 15 seconds to silence the audible alarm indefinitely. Press and hold the button for another 15 seconds to re-activate the audible alarm.
Cold Start Button	Gray	To use reserve battery power or restart with new battery, press and hold for 2 seconds, listening for beep and until all 4 LEDs light, then release.

Status LED, Alarm & Communication Signals

Condition	Status LED	Alarm	Interface	Description
Normal	System Status LED On		All communication signals in Low (closed) state	Condition normal; AC power load, charges battery. Battery is connected and in good condition.
ON Battery	DC LED On		Open	AC Mains failure or missing AC power cord, unit is providing power from the battery.
Replace Battery	Battery LED On	1/2 sec beep every 15 min	Open	At the end of the useful battery life, a Replace Battery alarm will be asserted.
Battery Missing	Battery LED On		Open	Approximately 15 seconds after removal of the battery, a Battery Missing Alarm will be asserted.
Low Battery	DC LED Flash	1/2 sec beep 4 times per minute	Open	When the battery reaches 45% remaining capacity on battery discharge, a Low Battery alarm is asserted.

Battery Type

The battery is a standard sealed lead acid battery rated at 12Vdc / 7.2Ah. If required, the battery may be replaced with an approved 12Vdc / 7Ah battery.



Batteries are considered HAZARDOUS WASTE and must be disposed of properly. Most retailers that sell batteries collect used batteries for recycling.

Specification

Model	DT30U12V-NA3	DT30U12V-NA3-G
Input		
Voltage Range	100Vac - 240Vac	
Frequency Range	47-70Hz	
Input Power Cord	NEMA 5-15 / 3-Prong Power Cord	
Output Ground Reference	Floating Ground	Earth Grounded
Output		
On Battery Output Voltage	12Vdc	
Continuous Power Capability	30W	
Efficiency (at 75% Max Load)	≥ 80%	
Battery		
Battery Type	Sealed, Maintenance Free Lead-Acid Battery	
Numbers of Battery	12Vdc / 7.2AH x 1	
Typical Recharge Time	14 Hours (90% charged)	
Replaceable	Yes	
Surge Protection and Filtering		
Lightning / Surge Protection	Yes	
Management		
Battery Auto-Charge	Yes	
Physical		
Maximum Dimensions (LxWxD) (in)	6.6 x 3.2 x 7.3	
Weight (lb)	7.16 (with battery)	
Environment		
Operating Temperature	-20°C - 45°C (-4°F -113°F) at full power Operation at 50°C (122°F) with derating to 24W	
Operating Humidity	0 – 95% noncondensing within enclosure	
Max Operating Elevation	10,000ft (3,000m)	
Max Storage Elevation	50,000ft (15,000m)	
Storage Temperature	-20°C - 45°C (-4°F -113°F)	

FCC NOTICE:

This equipment has been tested and found to comply with the limit for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (1) Reorient or relocate the receiving antenna. (2) Increase the separation between the equipment and receiver. (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. (4) Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any changes or modifications could void the authority granted by the FCC to operate this equipment.

NOTE:

This document is believed to be accurate, but CyberPower reserves the right to change or correct the contents and does not assume any responsibility for omissions or errors.

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