

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

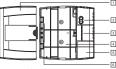
CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range.)

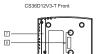
CAUTION! To reduce the risk of electric shock, do not remove the cover except to service the battery. No user serviceable parts are inside except the battery.

CAUTION! Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries

CAUTION! This unit must be wall mounted. Do not use the unit unless it is mounted correctly.

OVERVIEW (CS36D12V3-T)





- 1 Battery Compartment Cover Control Buttons
 (Alarm Silence / Battery Emergency Use)
- 3. LED Indicators (Auxiliary Power Source / Replace Battery / Battery Power / System Status)
- 4. Battery Compartment 5. 9 Pin Conductor Compartment
- Cover 6. Battery Release Latch
- Interconnection & Power Cable
 Channel
- 8. Keyhole Screw Slot
- Pass Through Hole for Interconnection & Power Cable

CS36D12V3-T Rack CA50A48V3-T Installation Guide





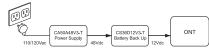


CS36D12V3-T Installation Guide

INTRODUCTION

The CS36A12V3-T provides increased flexibility and cost effectiveness by separating the power supply unit (CA50A48V3-T) from the battery back up unit (CS36D12V3-T). The power supply plugs into a 1101/20Vac outlet. It converts the power to 48Vdc, which is then fed through a power cord to the battery back up unit. The battery back up unit feeds 12Vdc to the 60Tt.

SYSTEM BLOCK DIAGRAM

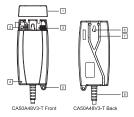


INSTALLATION

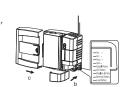
- Carefully follow these instructions during the installation of this device:

 1.) Carry out the installation in a safe area that is free of excessive dust and has adequate airflow. 2.) Screws must be appropriate for total weight of the UPS unit and the mounting surface material
- Do not operate the UPS where the temp
 (Refer to specifications in this manual.)

OVERVIEW (CA50A48V3-T)



- 1. Power Connector Compartment Cover Strain Relief Lip
- 3. 2 Pin IDC Connector 4. Power LED Indicator
- 5 Screw Hole 6. Keyhole Screw Slot 7 Coble Channel
- 8. Input Power Cord (6 ft.)



The UPS battery charges when it is connected to utility power. The battery charges fully during the first 24 hours of normal operation. Do not expect full battery run capability during this initial charge period.

Operation Guide

Start-Up: Plug the CA50A48V3-T power supply into AC power. The unit is now ready to be placed into service. The CS36D12V3-T has four LED indicators and two control buttons. The table below lists the functions of each.

I FD Indicators

Color	Condition
Blue	Press and hold the button for 3 second to silence the audible alarm.
Blue	Press and hold the button to activate emergency battery capacity.
Green	Indicates that an external power source with adequate voltage (12Vdc) is connected to the CS36D12V3-T.
Red	Battery replacement required. Alarm will beep once every 15 minutes
Green	Indicates the battery is supplying the power. At 45% battery capacity, this LED will flash and then alarm will beep 4 times per minute.
Green	Indicates normal mode of operation.
	Blue Blue Green Red Green

Status LED, Alarm & Communication Signals

Condition	Status LED	Alarm	Interface	Description	
Normal	System LED On		All communication	Condition normal; AC power load, charges battery.	
	1.		signals in Low state	Battery is connected and in good condition,	
ON Battery	Battery LED On		Open	AC Mains failure or loose connection between	
				power supply and battery board; battery is supplying	
				the power.	
Replace Battery	Replace Battery	1/2 sec beep	Open	Every 45 days, the unit will automatically initiate a	
	LED On	every 15 min		battery test. The test lasts 17 hours, if the battery	
				needs to be replaced, an alarm signal will be sent to	
				the Central Office.	
Battery Missing	Replace Battery	1/2 sec beep	Open	Approximately 15 seconds after battery removal,	
	LED On	every 15 min		the system initiates battery detection routine. Upon	
				failure, an alarm signal will be sent.	
Low Battery	Battery LED Flash			When battery capacity is < 45% (approximately	
	1	every 15 sec		12Vdc), unit signals low battery.	

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.

Auxiliary Power Connection (AUX)

Connection point for customer-supplied DC input voltage (12Vdc), At 45% remaining capacity, the CS36D12V3-T switches from internal battery to external source. The auxiliary power source supplies power to the load (ONT) in the event of 48V input voltage failure and a battery capacity of <45%.

Maintenance Mode

Maintenance mode determines remaining useful battery life. During the 17 hour test, the battery is discharge to determine its state. The unit measures the rate of change in the battery charge. If the rate of discharge is excessive, the battery replacement indicator is activated

- The CS36D12V3-T enters the maintenance mode approximately once every 45 days.
- In the event that the CS36D12V3-T is in the maintenance mode and an AC failure occurs, maintenance mode will cease and the CS36D12V3-T will supply the power to the load.

CS36D12V3-T Battery Replacement





Specification

Model	CA50A48V3-T	CS36D12V3-T	
Input			
Voltage Range	120Vac	48Vdc	
Frequency Range	50 / 60Hz		
Output	1	1	
Output Voltage (Normal)	48Vdc	12Vdc	
Output Voltage (Battery Mode)		10.5 ~ 20Vdc	
Output Power Max	48W	36W	
Ripple	less than 200 mV		
Connector Type	Insulation Displacement Connector (IDC)		
Battery			
Battery Type	Sealed, Maintenance Free Lead-Acid Battery		
Numbers of Battery	7.2Ah / 12V		
Auxiliary Input Power	12Vdc / 1.3mm COAX Power Jack		
Warning Diagnostics			
Indicators	AC Power /	Auxiliary Power Source /	
	Protected	Replace Battery /	
		Battery Power / System Statu	
Alarm		AC Fail / Replace Battery	
		Replace Battery /	
		Low Battery	
Management		•	
Communication Interface		Signal Retun / On Battery /	
		Replace Battery / Missing	
		Battery / Low Battery	
Physical			
Maximum Dimensions (L*W*D)	5.94 x 2.65 x 1.56 in	6.89 x 6.75 x 3.47 in	
Weight (lb)	0.77lb	1.51lb	
Environment			
Operating Temperature	-4°F ~ +122°F (-20°C ~ +50°C)		
Operating Humidity	0 - 95% noncondensing within enclosure		
Max Operating Elevation	10,000ft (3,000m)		
Max Storage Elevation	50,000ft (15,000m)		
Storage Temperature	-4°F ~ +122°F (-20°C ~ +50°C)		

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 commissions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment close cause harmful interference to radio or television reception, which can be determined by turning the equipment of fair on, the user is encouraged to typ occrete the interference by one or more of the following nations. (2) Increase the appearation 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: Signal cables must be used with this device to ensure compliance with Class B FCC limits.

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