



### Model No. TEL 100F (12 Volts, 109 Ah at 8 hour Rate to 1.75 vpc)

When setting the Battery Temperature High Threshold Parameter on the Eaton controller, Verify it matches the Operating Temperature of the Batteries being used. This information can be found on the datasheets from the manufacturer.

Data from 2 manufacturers is listed here for reference.

Haze’s TEL100F is rated for 122°F (50 °C) on the high end of the scale  
While Northstar’s 100FT is rated up to 149°F (65°C)

#### Specifications

Design Life	12 Years
Operating Temperature	-4 °F to 122 °F
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Charge Voltage	Float 2.27 - 2.30 VPC @77 °F Cycling 2.35 @77 °F Max. 2.4 VPC Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Torque setting	The recommended torque value for all types is 44-62 inch-pounds

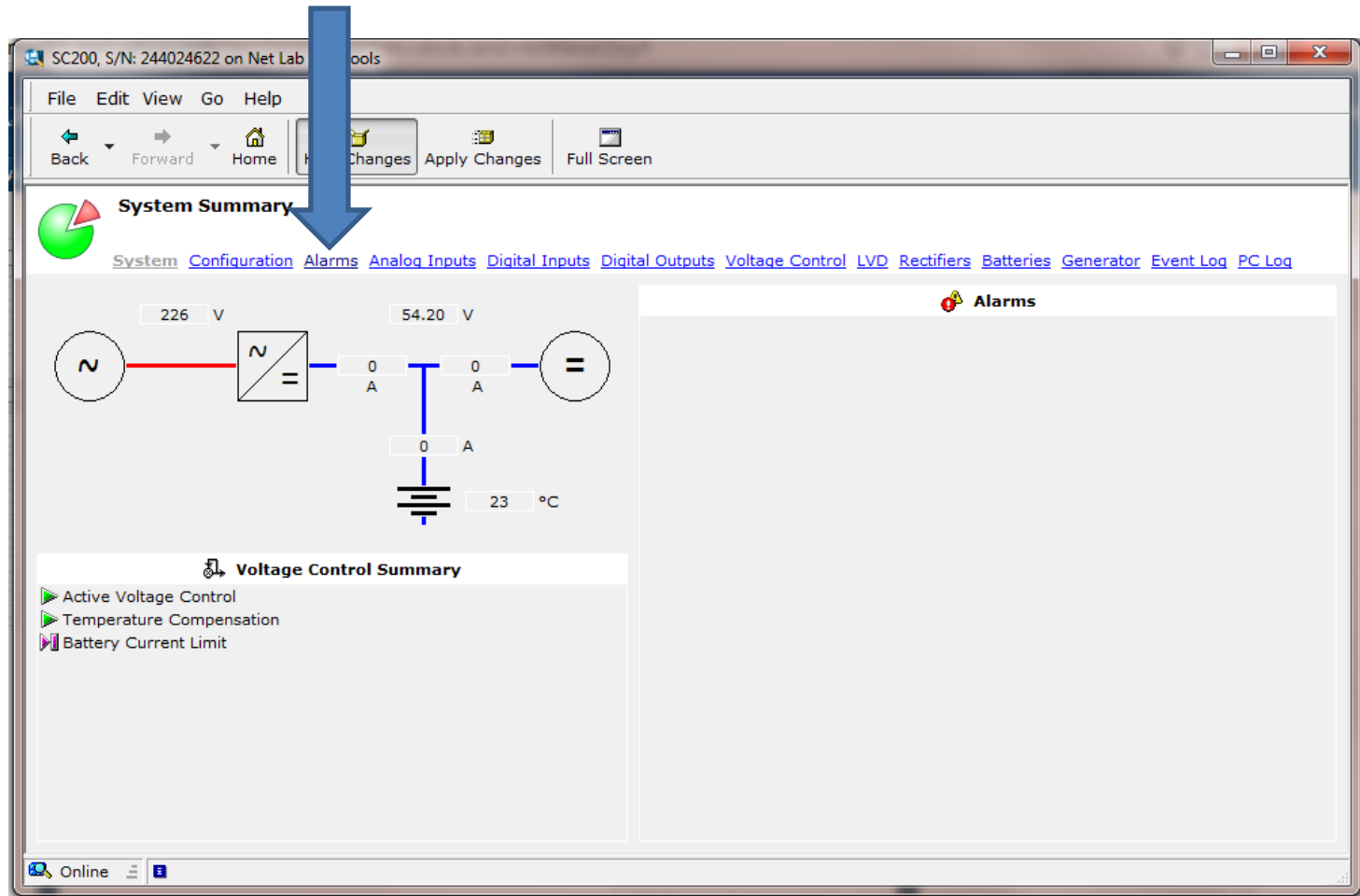
### NSB 100FT Red Battery®

Long float life at elevated temperatures

- Pure lead AGM technology delivers long float life for telecom applications even at elevated temperatures
- 15 year float life at 20°C (68°F)
- EUROBAT design life definition: Long Life (12+ years)
- High energy density
- Operating temperature range:  
-40°C to +65°C (-40°F to 149°F)
- State-of-the-art automated manufacturing ensures consistency and reliability
- Advanced 3 stage terminal design to ensure leak-free operation - female M8 brass terminals provide maximum performance

# How to change the Battery Temperature High Threshold Parameter on an Eaton controller with DCTools

## 1. Click on Alarms



The screenshot displays the DCTools software interface for an Eaton SC200 controller. The window title is "SC200, S/N: 244024622 on Net Lab tools". The interface includes a menu bar (File, Edit, View, Go, Help) and a navigation toolbar with buttons for Back, Forward, Home, Home Changes, Apply Changes, and Full Screen. The main content area is titled "System Summary" and features a navigation menu with the following options: System, Configuration, Alarms, Analog Inputs, Digital Inputs, Digital Outputs, Voltage Control, LVD, Rectifiers, Batteries, Generator, Event Log, and PC Log. A large blue arrow points to the "Alarms" tab, which is currently selected. The "Alarms" panel on the right is empty. The left panel shows a schematic diagram of the power system, including a 226 V AC source, a transformer, a 54.20 V DC source, and a battery bank with a temperature of 23 °C. Below the schematic is a "Voltage Control Summary" section with the following items: Active Voltage Control, Temperature Compensation, and Battery Current Limit.

SC200, S/N: 244024622 on Net Lab - DCTools

File Edit View Go Help

Back Forward Home Hold Changes Apply Changes Full Screen

### Alarm Table.

[System](#) [Alarms](#) [Smart Alarms](#) [Analog Inputs](#) [Digital Inputs](#) [Digital Outputs](#)

17	LVD1 Fail	-	Critical
18	LVD1 Manual	-	Warning
19	LVD2 Disconnected	-	Major
20	LVD2 Fail	-	Critical
21	LVD2 Manual	-	Warning
22	Battery Temperature Low	-	Major
23	Battery Temperature High	-	Major
24	Sensor Fail	-	Warning
25	Equalise	-	Warning
26	Fast Charge	-	Warning
27	Battery Test	-	Warning
29	In Discharge	-	Critical
30	Battery Current Limit	-	Major
33	Rectifier Over Temperature	-	Major
43	Unmapped IOB Found	-	Warning
44	Unknown Hardware	-	Warning
45	Missing Hardware	-	Minor
47	LVD1 Characterisation Error	-	Major
48	LVD2 Characterisation Error	-	Major
55	Configuration Error	-	Major
57	Characterising Battery	-	Warning
58	DO Manual	-	Minor

Reset Battery Test Fail

Reset Rectifier Comms Lost

+ Alarm Configuration

2. Scroll down until you see:  
Alarm Configuration and click on the + sign to expand

3. Scroll down to:  
Battery Temperature High Threshold  
and change it to “50”  
The font will change to light gray

4. Click on any of the other parameter windows  
i.e. Enable Audible Alarm Indication  
(there is no need to change anything else here)  
That will make the font for “50” to green

The screenshot shows the SC200 control interface. The title bar reads "SC200, S/N: 244024622 on Net Lab - DCTools". The menu bar includes "File", "Edit", "View", "Go", and "Help". The toolbar contains "Back", "Forward", "Home", "Hold Changes", "Apply Changes", and "Full Screen".

The main content area is titled "Alarm Table." and includes a table of system alarms:

Code	Description	Severity
47	LVD1 Characterisation Error	Major
48	LVD2 Characterisation Error	Major
55	Configuration Error	Major
57	Characterising Battery	Warning
58	DO Manual	Minor

Below the table are buttons for "Reset Battery Test Fail" and "Reset Rectifier Comms Lost".

The "Alarm Configuration" section is expanded, showing the following settings:

- Enable Audible Alarm Indication: Enabled
- Alarm Recognition Period: 10 s
- AC Fail Recognition Period: 10 s
- Generator Fail Alarm Recognition Period: 60 s
- Enable Low Float Tracking: Enabled
- Low Float Threshold: 52.80 V
- Enable High Float Tracking: Enabled
- High Float Threshold: 55.60 V
- Low Load Threshold: 47.00 V
- High Load Threshold: 57.60 V
- Battery Temperature High Threshold: 50 °C
- Battery Temperature Low Threshold: 0 °C
- System Overload Type: Redundancy
- System Overload Recognition Period: 240 min
- System Overload Threshold: 85 %
- In Discharge Alarm Condition: Always

A red box highlights the "Apply Changes" button in the toolbar. A blue arrow points to the "50" value in the "Battery Temperature High Threshold" field.

5. Lastly, click on Apply changes