

Heat Tamer[®]

Advanced Temperature Compensation of Float Voltage



The **Heat Tamer[®]** provides advanced temperature compensation of battery float voltage. Engineered to operate in the harshest environments, they operate as a stand-alone, in-line device to regulate float current from the DC power system (24 or 48VDC). Typical applications include outdoor cabinets and communication shelters that contain battery systems that are subject to extreme seasonal temperature swings.

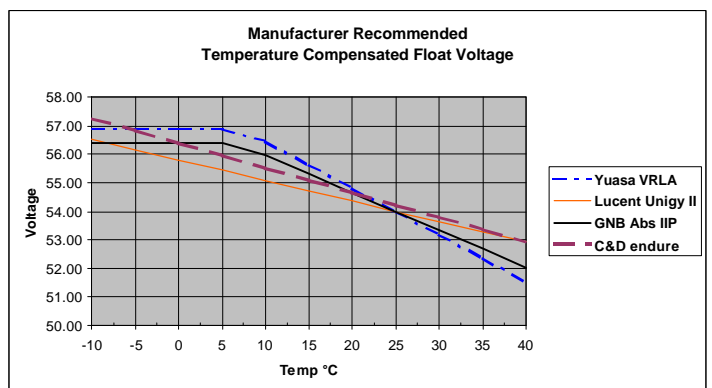
When the operation of communications equipment includes backup batteries that are subject to unstable temperatures, it reduces both battery life and system survivability. This problem is most common when the DC power supply is a conventional fixed voltage output. Two distinct situations occur as follows:

1. The batteries will be over-charged when warmer than 25°C (77°F), resulting in loss of water and possible reduction in life cycle if the loss of water from over charging cannot be reduced or eliminated.
2. Conversely, if the charge voltage is reduced, the batteries will be under-charged when temperatures are below 25°C (77°F), resulting in less than complete charging. This causes sulfating and a hardening of the plates thereby reducing capacity.

Both of these problems can be mitigated by use of our proprietary temperature compensation device. The **Heat Tamer[®]** device reduces the float voltage of batteries after they have been fully charged, while providing full charge and discharge capability for the battery. This solid state device installs between the battery string and the power plant to actively manage the charging requirements based on the temperature of the batteries.

Features:

- ◆ Passive inline device is transparent to other equipment in the system.
- ◆ Fully temperature compensated float voltage provides a 0 to 6 volt variance in charge voltage.
- ◆ Programmable to adapt to any manufactures recommendations and technology
- ◆ An optional form 'C' alarm relay can be activated if the battery temperature exceeds safe limits.
- ◆ Improves system reliability and safety by reducing outgassing caused by overcharging at high temperatures.
- ◆ Encapsulated in an aluminum heat sink to withstand the harshest environments.
- ◆ LED indicates status of device:
 - ◆ Steady green - charging
 - ◆ Flashing green- regulating
 - ◆ Flashing red- over temperature
 - ◆ Steady red- failed.
- ◆ Performs a self-test upon powering up.
- ◆ Available in +12, +24, and -48VDC versions
- ◆ Weight- 0.88 lb. (0.13 kg)
- ◆ Dimensions (in)-4.75 x 3.88 x 1.75



Standard Models include:

HT-24V-300AH (Controls float current charge regulation for up to 300AH in a 24-volt configuration)

HT-48V-200AH (Controls float current charge regulation for up to 200AH in a 48-volt configuration)

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