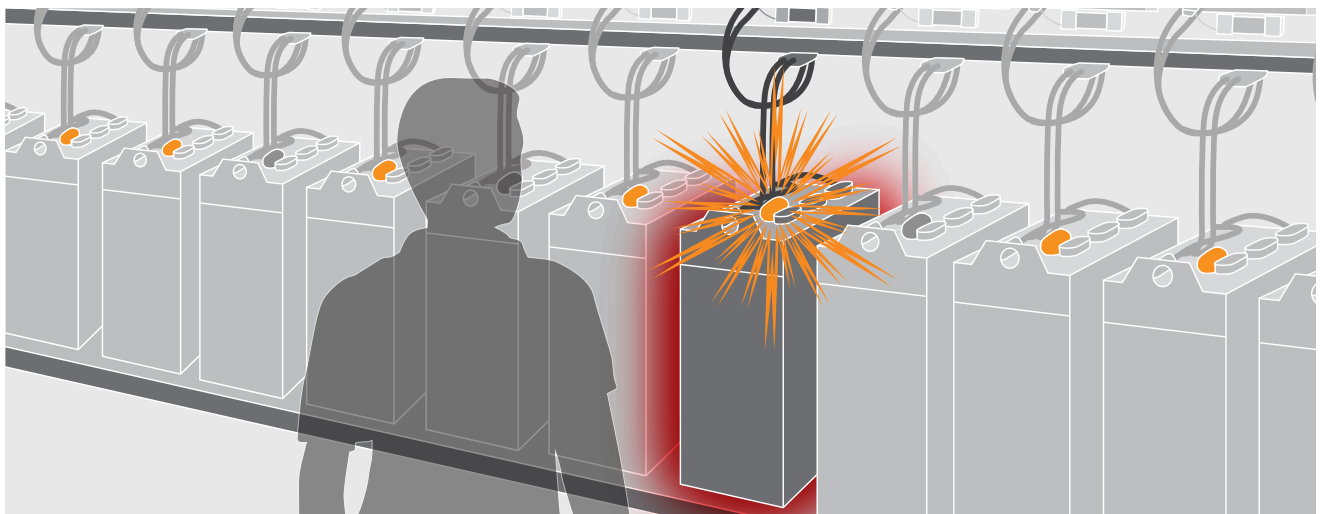


SmartBlinky™ Battery Temperature Monitor



The SmartBlinky BTM avoids costly damage to batteries through high temperatures.



Let your batteries tell you when they are over temperature.

Using a lead acid battery over 40°C damages the battery and reduces its life span.

A good rule to remember is that for every 10 degrees over 40°C the battery cycle life halves; therefore, if the average lifetime temperature of a battery with a 1500 cycle life is 50°C it will only deliver 750 cycles.

‘In practice the temperature of the battery...fluctuates due to the many influences on it, and deviates widely from the ideal 30°C condition. Increased temperatures – especially in the range above 40°C – have a particularly negative influence on the service life, as all chemical reactions – including the harmful secondary reactions – are then accelerated.’ **Considerations on the Life of Traction Batteries – ZVEI Batterien**

The SmartBlinky BTM reduces the damaging effects of high temperatures on batteries by alerting users when batteries are over temperature so they can select a battery that has cooled down. If no battery temperatures are in a suitable operating range action can be taken by management to mitigate the problem.

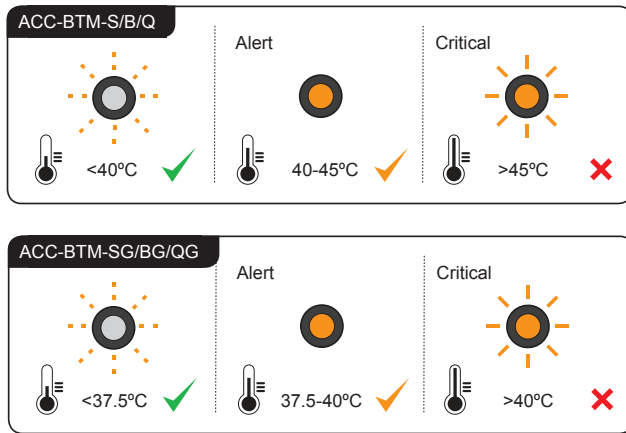
Features

- ✓ The new SmartBlinky BTM provides an alert and then critical indication so battery users can have no doubts about whether a battery needs is over temperature or not.
- ✓ A low profile reduces any potential to be damaged
- ✓ Suits all lead acid batteries.
- ✓ Installation error forgiveness with reverse polarity and over voltage protection.
- ✓ Easily moved between batteries.

“With an installed cost of just £50/\$75/€65 to the end user it provides a ROI in just 18 weeks, through increased battery life and reduced battery maintenance.”

Features and benefits summary

Easy to use: With its bright amber LED the SmartBlinky BTM is easy to use: A solid amber LED means alert and when it flashes it means the battery temperature is critical.



Improved battery life: Battery life halves for every 10°C over 40°C it operates at. Avoid using batteries over temperature and maximise their useful life.

Three connection types: Available with B = M10 steel ring for bolt intercell connectors, Q = FlexiTap self-piercing option and S = M4 self-tapping screw and steel ring.

Multiple Fuses: All SmartBlinky BTMs are equipped with a minimum of two fuses.

Fully classified: All SmartBlinky BTMs hold the CE Mark and C-Tick so you can be assured of their safety.

Engineered to be tough: The SmartBlinky BTM is built to withstand the harsh environment of industrial battery applications. All materials are corrosion resistant and the low profile design protects against damage from battery cables and other hazards. The SmartBlinky BTM has been designed to last the life of the battery.

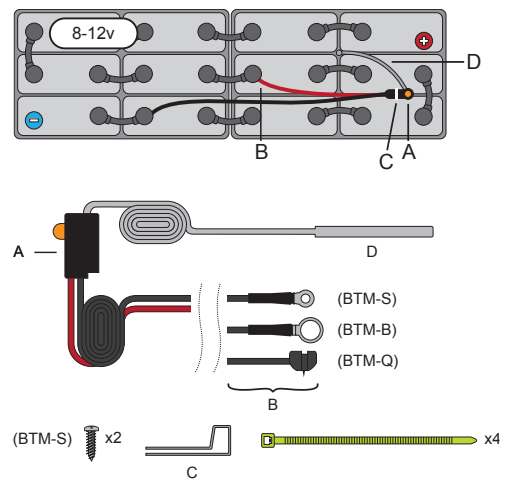
Inexpensive and cost effective: Over the lifetime of a battery, a SmartBlinky BTM saves time and labour costs and delivers rapid ROI.

Satisfaction guaranteed: The SmartBlinky BTM is covered by a one-year conditional warranty and has an anticipated design life of greater than five years.

Fits all cells: Just adjust the packing and place the probe between the cells.

Rugged design: The tough, low profile SmartBlinky BTM has a small footprint.

Simple installation: Connect two wires to power in-between 8.0v and 12.0v and place the probe between the cells. Reverse connection will not damage the SmartBlinky BTM.



Interchangeable: Easily removed from one battery and fitted to another.

Self-powered: The SmartBlinky BTM is powered by the battery on which it is installed and uses a tiny amount of energy, less than 3 mA, which won't reduce battery life. Immediate ROI: The SmartBlinky BTM is a low cost solution that is quickly paid for through reduced labour costs and by preventing damage due to overtemperature.

Warranty: The SmartBlinky BTM comes with a one-year conditional warranty and has an anticipated design life of greater than five years.

Specifications

Nominal Current	2.67mA
Indications	Orange heartbeat – OK Solid orange – Alert Flash orange - Critical
Reverse Polarity Protection	Yes
Connections	B) M10 steel ring S) M4 steel ring and screw Q) FlexiTap piercing
Flame Retardant	UL V-0
Fuses	2 on board, plus 1 inline (B&S), 2 in FlexiTap (Q)
Warranty	1 year



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