

Battery Temperature Sensor

930-0022-20



Battery Temperature Sensor improves charge control and battery performance.

Applying the proper charge voltage is critical for achieving optimum battery performance and longevity. The ideal charge voltage required by lead acid batteries changes with battery temperature. The battery temperature sensor allows the charge controller to continuously adjust charge voltage based on measured battery temperature. Temperature compensation of charge voltage assures that the battery receives the proper charge voltage as battery temperature changes during normal operation.

Product Features

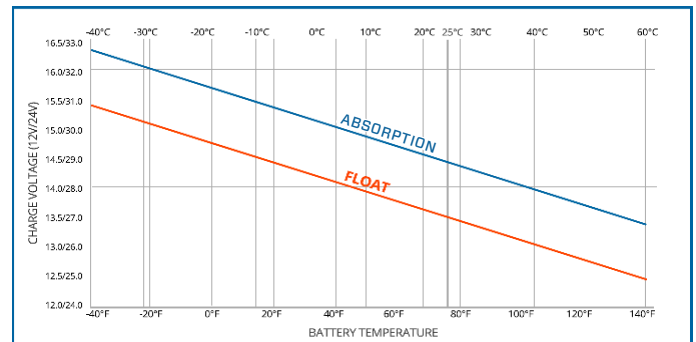
- Capable of Temperature Compensation
- Sensor element is double sealed for protection from the elements
- Accurately measure internal battery temperature w/ sensor housing mounts to battery terminal

Compatibility

- Compatible with all Blue Sky Energy Charge Controllers

- Improves battery performance
- Extends battery lifetime
- Ready to install

The graph to the right shows how the Solar Boost 3024iL would use the temperature sensor to adjust charge voltage based on battery temperature. Without temperature compensation charge voltage would be too low at low battery temperatures leading to chronic under charging and battery damage due to sulfation. At high battery temperatures charge voltage would be too high leading to excessive water loss and undue degradation of the positive plate. Both of these conditions can impair battery performance and shorten battery life.



Specifications:

Battery Temperature Sensor

Accuracy:	+/- 1.0°C @ 25°C, +/- 2.5°C over full range
Operating Temperature:	-40°C - 100°C
Cable:	20 awg, 105°C PVC
Cable Length:	20 feet (6.1 m)
Lug Mounting Hole:	0.400 " (1.02 cm) Nominal Diameter
Weight:	1 lbs (450 g)
Warranty:	5 years
Certifications:	CE, FCC, RoHS

BLUE SKY ENERGY BATTERY TEMP. SENSOR DATA SHEET, REVISION 2.0 | 2022