



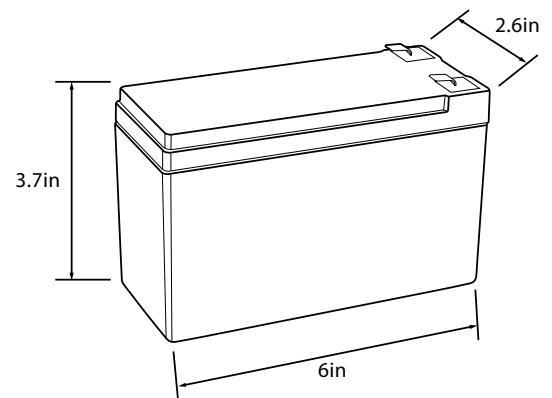
FEATURES:

- High energy density
- Automatic protection with internal battery management system
- Low self-discharge rate
- Long cycle life
- Excellent performance in all operating temperatures

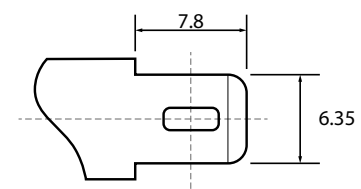
BATTERY SPECIFICATIONS

| Nominal Characteristics | |
|------------------------------------|--|
| Nominal Voltage /V | 12.8V |
| Nominal Capacity /Ah (25°C , 0.2C) | ≥ 10Ah |
| Mechanical Characteristics | |
| Weight | 2.25 lbs |
| Dimensions LxWxH | 6 x 2.6 x 3.7 in |
| Terminal | F2 |
| Electrical Characteristics | |
| Voltage Window | 9.2 – 14.6V |
| Charge Voltage | 14.4V |
| Standby Voltage | 13.8V |
| Max. Continue Discharge Current | 10A |
| Max. Permanent Discharge Current | 20A 10Sec. |
| Max. Continue Charge Current | 5A |
| Operation Conditions | |
| Cycle Life (+20°C 0.2C 100%DOD) | >2500 Cycles |
| Operating Temperature | Discharge: - 4 – 140°F Charge: 32 – 140°F |
| Storage Temperature | 32 – 86°F |
| Storage Duration | 12 Months at 77°F |
| Safety Standard | UI1642 at cell level |

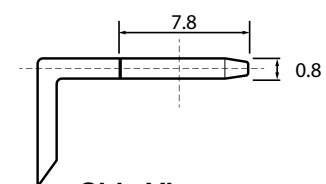
BATTERY DIMENSIONS:



TERMINAL DIMENSIONS:



Top View



Side View

BMS SPECIFICATIONS

| Protection | Content | Criteria |
|----------------|--|---|
| Voltage | Charging voltage | DC:14.4V CC/CV |
| | Balance voltage for single cell | 3.525±0.025V |
| Current | Balance current for single cell | 35±5mA |
| | Current consumption | ≤35uA |
| | Max continuous charge current | ≤20A |
| | Max continuous discharge current | ≤20A |
| | Maximum discharging current (time) | 40A/5S |
| Over-Charge | Over-Charge detection voltage | 3.65±0.025V |
| | Over-Charge detection delay time | 0.5~1.5S |
| | Over-Charge release voltage | 3.55±0.05V |
| Over-Discharge | Over-Discharge detection voltage | 2.30±0.05V |
| | Over-Discharge detection delay time | 500~1500mS |
| | Over-Discharge release voltage | 2.7±0.10V |
| Over-Current | Over-Discharge current detection | 50±10A |
| | Detection delay time 1 | 50~150mS |
| | Over-Discharge current detection | 100±20A |
| | Detection delay time 2 | 5~15mS |
| | Over-Charge current detection current | 20±8A |
| | Detection delay time | 300~800mS |
| Short Circuit | Short Circuit Protection Current | 200A |
| | Detection delay time | 300~800uS |
| | Detection condition | Exterior short circuit |
| | Release condition | Cut load, Auto Recovery |
| Temperature | Detect the temperature of the Mosfet MOS | / |
| | Charging high temperature protection | 50±5 °C |
| | Charging high temperature release | 40~45 °C |
| | Charging low temperature protection | 0±5 °C |
| | Charging low temperature release | 5~10 °C |
| | Discharge high temperature protection | 70±5 °C |
| | Discharge high temperature release | 50~60 °C |
| | Discharge low temperature protection | -20±5 °C |
| | Discharge low temperature release | -10~-15 °C |
| | Temperature protection release condition | 25 °C Idle for 60 minutes, charging activation. |
| | Operating temperature range | -20~+70 °C |
| | Storage temperature range | 0~60 °C |