

## FAS1055

### Technical Specifications

|                  |                                |
|------------------|--------------------------------|
| Nominal Voltage  | 12V                            |
| Nominal Capacity | 5Ah (20 Hr Rate to 1.75V/cell) |
| Chemistry        | Lead Acid - AGM                |

### Physical Specifications

|                   |           |          |
|-------------------|-----------|----------|
| Length            | 90 mm     | 3.54 in  |
| Width             | 70 mm     | 2.76 in  |
| Height            | 101 mm    | 3.98 in  |
| Height w/Terminal | 107 mm    | 4.21 in  |
| Weight (+/- 5%)   | 1.47 Kg   | 3.24 lbs |
| Terminal Type     | F1        |          |
| Case Material     | Black ABS |          |

### Charging Specifications

| Charge Voltage      | Battery     | Per Cell    |
|---------------------|-------------|-------------|
| Float               | 13.5V~13.8V | 2.25V~2.30V |
| Cycle               | 14.4V~15.0V | 2.40V~2.50V |
| Max. Charge Current | 1.5A        |             |

### Capacity Specifications

|                                  |   |
|----------------------------------|---|
| 5 Second Discharge Current       | 50A   |
| Self Discharge (to 80% capacity) | 1 Month 97%<br>3 Months 91%<br>6 Months 83% |
| Internal Resistance              | 30 mΩ(25°C)                                 |

### Temperature Specifications

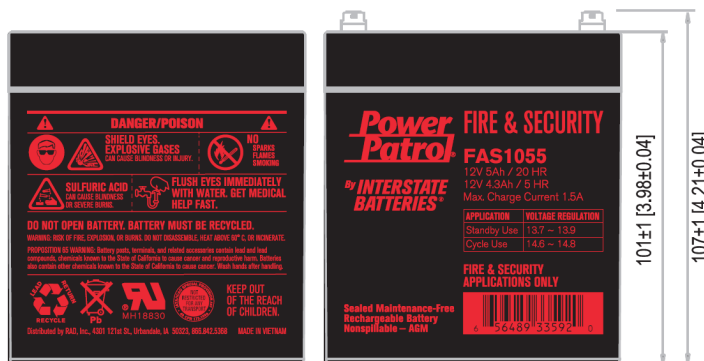
Operating Temperature Capability **-40° F (-40° C) to 140° F (60° C)**

Recommended parameters for optimal battery life and performance:  
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),  
Storage: 50° to 77° F (10° C to 25° C)



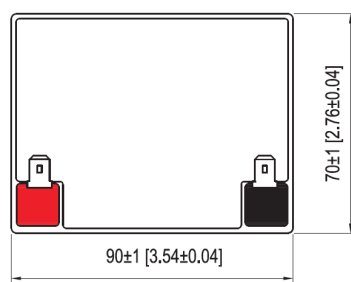
### FEATURES:

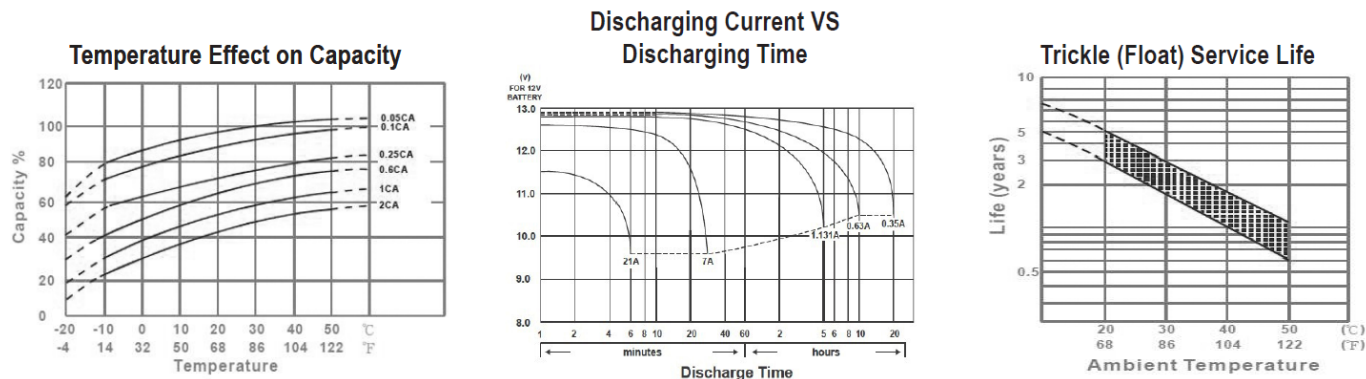
- Professional-grade quality developed specifically for fire & security applications
- Designed for optimum efficiency and long life in float charge devices
- Industry-leading AGM design
- VRLA technology to eliminate spills and over-pressurization
- Flexibility of mounting orientation
- Maintenance-free



Back side

Front side





### Constant Current Discharge Characteristics: A (25°C)

| F.V/Time   | 5 min | 30 min | 1 hr | 3 hr | 5 hr | 10 hr | 20 hr |
|------------|-------|--------|------|------|------|-------|-------|
| 1.85V/cell | 13.41 | 4.41   | 2.64 | 1.20 | 0.82 | 0.46  | 0.24  |
| 1.80V/cell | 15.24 | 4.76   | 2.82 | 1.25 | 0.85 | 0.47  | 0.25  |
| 1.75V/cell | 16.72 | 5.03   | 2.95 | 1.29 | 0.88 | 0.48  | 0.25  |
| 1.70V/cell | 17.90 | 5.24   | 3.05 | 1.33 | 0.90 | 0.49  | 0.26  |
| 1.65V/cell | 18.82 | 5.40   | 3.13 | 1.35 | 0.91 | 0.50  | 0.26  |
| 1.60V/cell | 19.53 | 5.52   | 3.19 | 1.37 | 0.92 | 0.50  | 0.26  |

### Constant Power Discharge Characteristics: W (25°C)

| F.V/Time   | 5 min | 30 min | 1 hr | 3 hr | 5 hr | 10 hr | 20 hr |
|------------|-------|--------|------|------|------|-------|-------|
| 1.85V/cell | 25.26 | 8.55   | 5.17 | 2.37 | 1.63 | 0.91  | 0.48  |
| 1.80V/cell | 28.20 | 9.13   | 5.47 | 2.47 | 1.69 | 0.94  | 0.50  |
| 1.75V/cell | 30.42 | 9.56   | 5.70 | 2.54 | 1.73 | 0.96  | 0.51  |
| 1.70V/cell | 31.99 | 9.86   | 5.87 | 2.59 | 1.76 | 0.98  | 0.51  |
| 1.65V/cell | 33.25 | 10.10  | 6.00 | 2.63 | 1.79 | 0.99  | 0.52  |
| 1.60V/cell | 33.61 | 10.18  | 6.05 | 2.65 | 1.80 | 1.00  | 0.52  |

## Charging

**Float Service:** Holding the battery across a constant voltage source of 13.5-13.8 volts allows it to seek its own current level and maintain itself in a fully charged state. Please note that this type of battery should be charged within 6 months of storage, otherwise sulfation could cause a permanent loss of capacity.