

## GEL0075

### Technical Specifications

Nominal Voltage	12V
Nominal Capacity	70.0 Ah (20 Hr Rate to 1.80V/cell) 84.0 Ah (100 Hr Rate to 1.80V/cell)
Chemistry	Lead Acid - Gel

### Physical Specifications

Length	260 mm	10.2 in
Width	168 mm	6.61 in
Height	204 mm	8.03 in
Height w/Terminal	206 mm	8.11 in
Weight (+/- 5%)	22.7 Kg	50.04 lbs
Terminal Type	Insert - M6	
Case Material	ABS	

### Charging Specifications

Charge Voltage	Battery	Per Cell
Float	13.5V~13.8V	2.25V~2.30V
Cycle	13.8V~14.4V	2.30V~2.40V
Max. Charge Current	14.4A	

### Capacity Specifications

5 Second Discharge Current	700A
Self Discharge (to 80% capacity)	1 Month 92%
	3 Months 90%
	6 Months 80%
Internal Resistance	7.9 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:

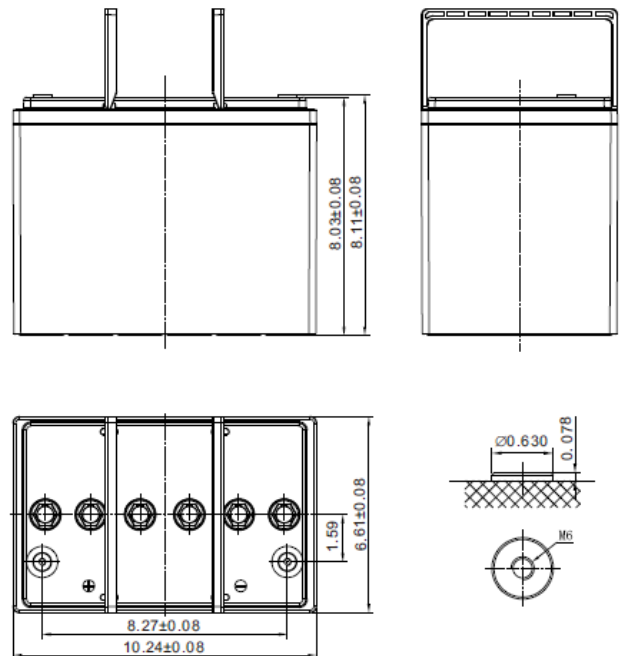
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

Storage: 50° to 77° F (10° C to 25° C)

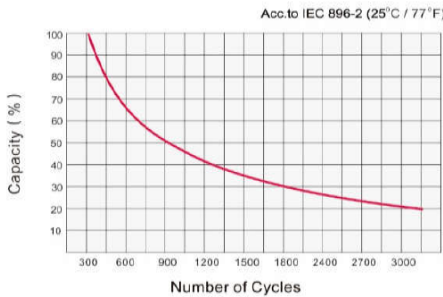


### FEATURES:

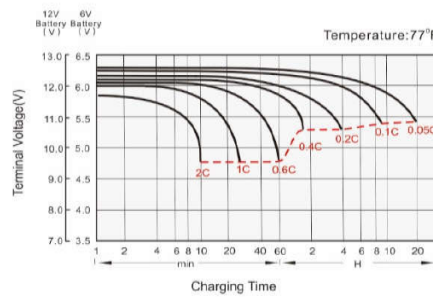
- Pure gel delivers high current on demand for long service life
- 2x the cycle life of standard AGM
- Ideal for standby or frequent cyclic discharge use
- Flexibility of mounting orientation
- Maintenance-free



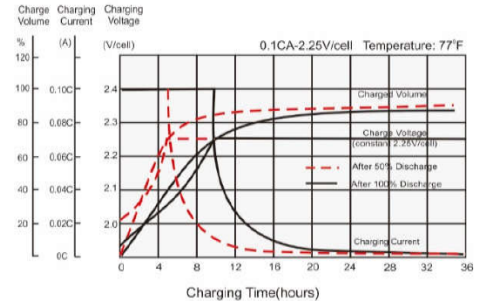
**Depth of Discharge Cycle Life**



**Discharging Current VS  
Discharging Time**



**Float Charge Characteristics**



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

F.V/Time	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.	5 hr.	10 hr.	20 hr.
1.85V/cell	62.5	50.1	39.9	34.3	19.4	13.4	9.08	5.46	3.32
1.80V/cell	70.6	58.2	45.3	38.1	21.1	14.5	9.75	6.00	3.50
1.75V/cell	76.3	60.9	47.0	39.7	21.9	15.0	10.0	6.03	3.54
1.70V/cell	80.3	63.7	48.8	41.2	22.7	15.4	10.3	6.03	3.58
1.67V/cell	83.1	65.5	49.7	42.0	23.1	15.7	10.4	6.08	3.61
1.60V/cell	85.3	69.5	52.1	44.1	24.2	16.4	10.8	6.14	3.68

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

F.V/Time	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.	5 hr.	10 hr.	20 hr.
1.85V/cell	118.9	95.7	76.8	66.3	37.6	26.3	17.8	10.8	6.59
1.80V/cell	132.9	110.0	86.5	73.4	40.8	28.3	19.0	11.8	6.93
1.75V/cell	141.9	114.0	89.1	75.9	42.1	29.0	19.4	11.8	6.99
1.70V/cell	147.6	118.2	91.6	78.4	43.4	29.8	19.9	11.8	7.07
1.67V/cell	151.6	120.7	92.9	79.6	44.1	30.2	20.2	11.9	7.12
1.60V/cell	153.7	126.1	96.5	82.8	46.0	31.3	20.8	12.0	7.25

## 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.