



Pure Gel Deep Cycle

GEL0075

Technical Specifications

Nominal Voltage	12V
Nominal Capacity	70.0Ah (20 Hr Rate to 1.80V/cell) 74.6Ah (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	208 mm	8.19 in
Height w/Terminal	214 mm	8.43 in
Weight (+/- 5%)	22.8 Kg	50.3 lbs
Terminal Type	Insert	
Case Material	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	17.5A	

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:

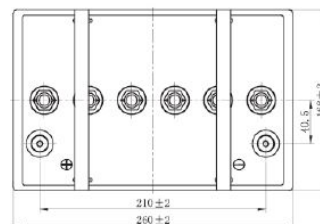
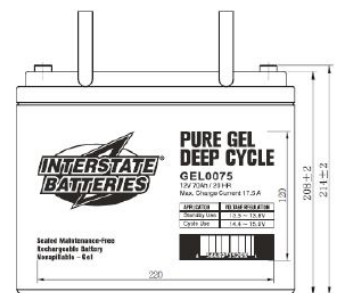
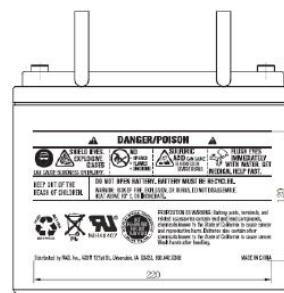
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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



FEATURES:

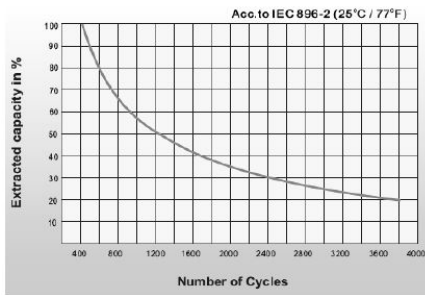
- Pure gel delivers high current on demand for long service life
- 2x the cycle life of standard AGM
- Ideal for standby or frequent cyclic discharge use
- Flexibility of mounting orientation
- Maintenance-free



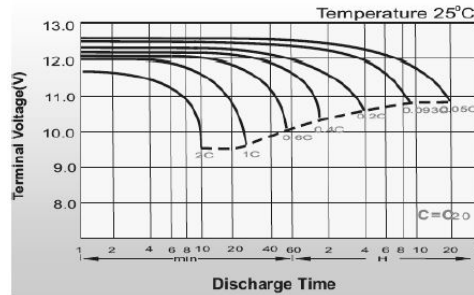


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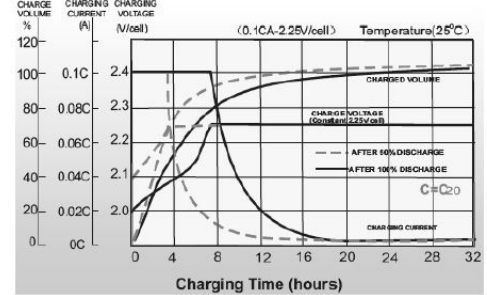
Depth of Discharge Cycle Life



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	59.2	46.5	35.5	29.7	18.8	14.4	10.3	6.11	3.36
1.80V/cell	67.8	51.9	39.1	32.8	20.4	15.4	10.8	6.38	3.50
1.75V/cell	76.2	57.1	42.3	35.1	21.6	16.2	11.2	6.51	3.57
1.70V/cell	82.1	61.2	44.9	37.1	22.9	16.9	11.6	6.66	3.62
1.67V/cell	85.5	63.6	46.5	38.5	23.5	17.5	11.8	6.74	3.65
1.60V/cell	92.6	68.0	49.9	40.9	24.4	18.2	12.2	6.87	3.70

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	113.3	89.6	68.8	57.8	36.8	28.1	20.3	12.2	6.71
1.80V/cell	128.1	99.2	75.3	63.5	39.6	30.0	21.2	12.7	6.98
1.75V/cell	142.4	108.0	80.8	67.6	41.9	31.6	22.0	12.9	7.11
1.70V/cell	151.7	114.7	85.2	71.1	44.2	32.9	22.6	13.2	7.19
1.67V/cell	156.2	117.9	87.6	73.3	45.1	33.8	23.0	13.4	7.25
1.60V/cell	167.3	125.1	93.4	77.5	46.7	34.9	23.6	13.6	7.35

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.