

# Pure Gel Deep Cycle

## GEL0035

### Technical Specifications

Nominal Voltage	12V
Nominal Capacity	31.0Ah (20 Hr Rate to 1.80V/cell) 36Ah (100 Hr Rate to 1.80V/cell)
Chemistry	Lead Acid - Gel

### Physical Specifications

Length	195 mm	7.68 in
Width	130 mm	5.12 in
Height	164 mm	6.46 in
Height w/Terminal	178 mm	7.00 in
Weight (+/- 5%)	10.7 Kg	23.6 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	7.5A	

### Capacity Specifications

5 Second Discharge Current	300A
Self Discharge (to 80% capacity)	1 Month 92% 3 Months 90% 6 Months 80%
Internal Resistance	14.6 mΩ(25°C)

### Temperature Specifications

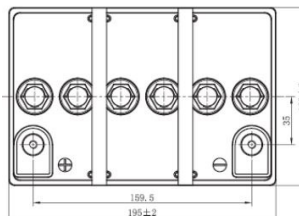
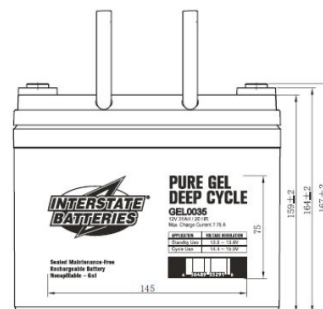
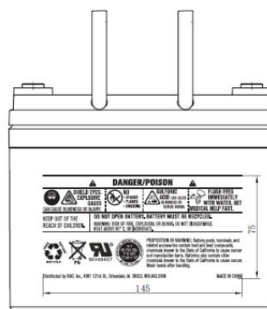
**Operating Temperature Capability** -40° F (-40° C) to 140° F (60° C)

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)



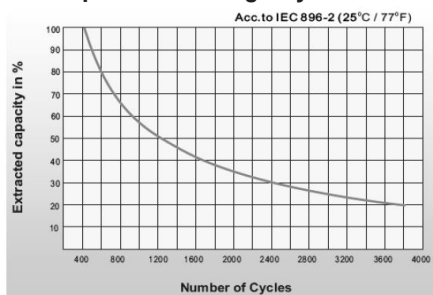
### FEATURES:

- 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

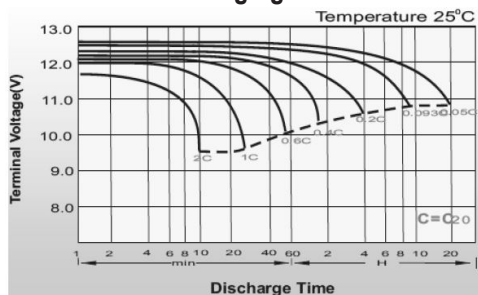


# Pure Gel Deep Cycle

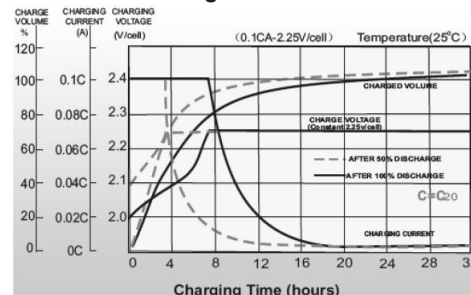
**Depth of Discharge Cycle Life**



**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	25.4	19.9	15.2	13.2	8.07	6.15	4.40	2.53	1.44
1.80V/cell	29.1	22.3	16.8	14.6	8.73	6.59	4.62	2.65	1.50
1.75V/cell	32.7	24.5	18.1	15.6	9.26	6.96	4.80	2.70	1.53
1.70V/cell	35.2	26.2	19.2	16.5	9.81	7.25	4.95	2.76	1.55
1.67V/cell	36.6	27.2	19.9	17.1	10.1	7.48	5.05	2.80	1.56
1.60V/cell	39.7	29.2	21.4	18.2	10.5	7.78	5.21	2.85	1.59

**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	48.6	38.4	29.5	25.7	15.8	12.0	8.68	5.05	2.87
1.80V/cell	54.9	42.5	32.3	28.2	17.0	12.9	9.09	5.27	2.99
1.75V/cell	61.0	46.3	34.6	30.0	17.9	13.6	9.41	5.37	3.05
1.70V/cell	65.0	49.2	36.5	31.6	18.9	14.1	9.68	5.49	3.08
1.67V/cell	66.9	50.5	37.5	32.6	19.3	14.5	9.85	5.54	3.11
1.60V/cell	71.7	53.6	40.0	34.4	20.0	15.0	10.1	5.64	3.15

## 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.