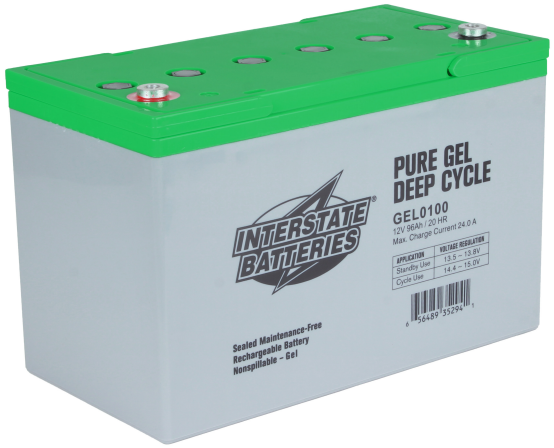
Pure Gel Deep Cycle

GEL0100



Technical Specifications

Nominal Voltage	12V
Nominal Capacity	100 Ah (20 Hr Rate to 1.75V/cell) 108 Ah (100 Hr Rate to 1.75V/cell
Chemistry	Lead Acid - Gel

Physical Specifications

Length	330 mm	12.99 in
Width	173 mm	6.81 in
Height	212 mm	8.35 in
Height w/Terminal	218 mm	8.58 in
Weight (+/- 5%)	30.8 Kg	67.9 lbs
Terminal Type	Insert	
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	24.0A	

Capacity Specifications

5 Second Discharge Current	1000A
Self Discharge (to 80% capacity)	1 Month 92% 3 Months 90% 6 Months 80%
Internal Resistance	5.9 mΩ(25°C)

Temperature Specifications

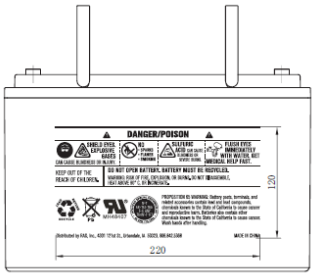
Operating Temperature Capablity	-40° F (-40° C) to 140° F (60° C)

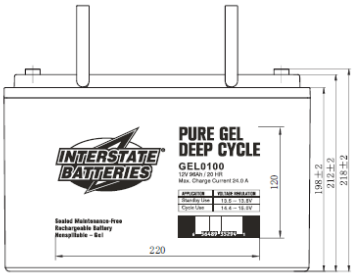
Recommended parameters for optimal battery life and performance:

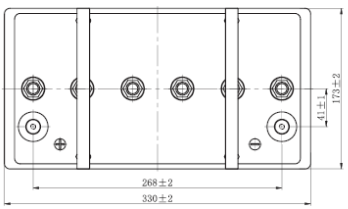
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),
Storage: 50° to 77° F (10° C to 25° C)

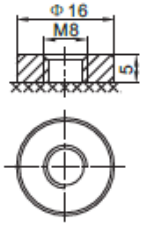
FEATURES:

- 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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Interstate Batteries
4301 121st Street Urbandale, IA 50323

866-884-4635
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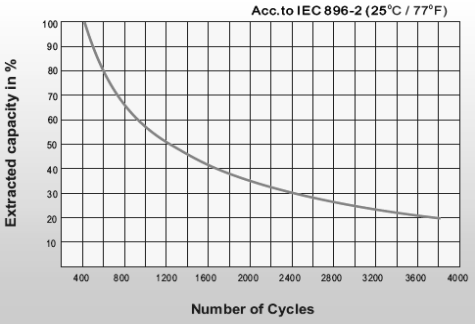
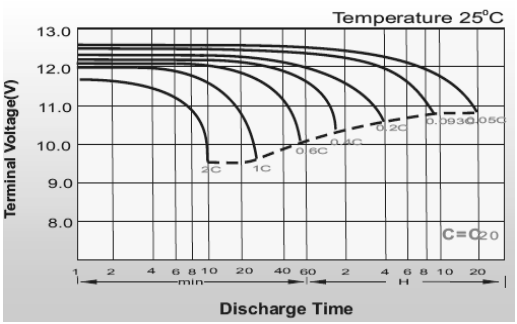
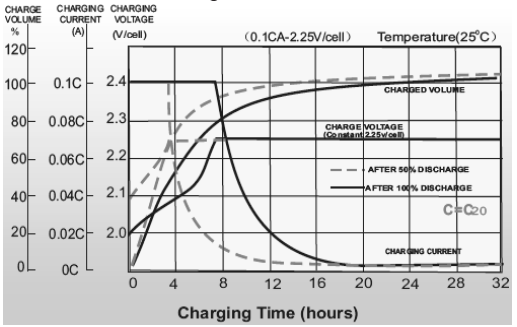
Depth of Discharge Cycle Life



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	84.6	66.4	50.7	42.4	26.9	20.5	14.7	8.47	4.61
1.80V/cell	96.9	74.2	55.9	46.8	29.1	22.0	15.4	8.85	4.80
1.75V/cell	108.9	81.6	60.4	50.1	30.9	23.2	16.0	9.00	4.90
1.70V/cell	117.3	87.4	64.1	53.0	32.7	24.2	16.5	9.23	4.96
1.67V/cell	122.1	90.8	66.4	55.0	33.6	24.9	16.8	9.34	5.01
1.60V/cell	132.3	97.2	71.3	58.4	34.9	25.9	17.4	9.53	5.08

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	161.9	128.0	98.2	82.6	52.6	40.2	28.9	16.9	9.20
1.80V/cell	183.0	141.6	107.5	90.7	56.6	42.9	30.3	17.6	9.57
1.75V/cell	203.4	154.4	115.4	96.5	59.8	45.2	31.4	17.9	9.75
1.70V/cell	216.8	163.9	121.7	101.6	63.1	46.9	32.3	18.3	9.86
1.67V/cell	223.1	168.5	125.1	104.8	64.4	48.2	32.8	18.5	9.95
1.60V/cell	239.1	178.7	133.4	110.7	66.7	49.9	33.8	18.9	10.1

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.

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