

## DCM0018

### Technical Specifications

Nominal Voltage	12V	
Nominal Capacity	18Ah (20 Hr Rate to 1.75V/cell)	
Chemistry	Lead Acid -AGM	

### Physical Specifications

Length	181.5mm	7.16in
Width	77mm	3.03in
Height	167.5mm	6.59in
Height w/Terminal	167.5mm	6.59in
Weight (+/- 5%)	6.00Kg	13.23bs
Terminal Type	INSERT TERMINALS	
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	5.4A	

### Capacity Specifications

5 Second Discharge Current	270A	
Self Discharge (to 80% capacity)	3 Months	91%
	6 Months	82%
	12 Months	64%
Internal Resistance	15mΩ(25°C)	

### Temperature Specifications

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

Recommended parameters for optimal battery life and performance:

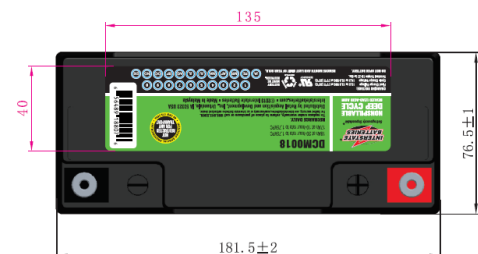
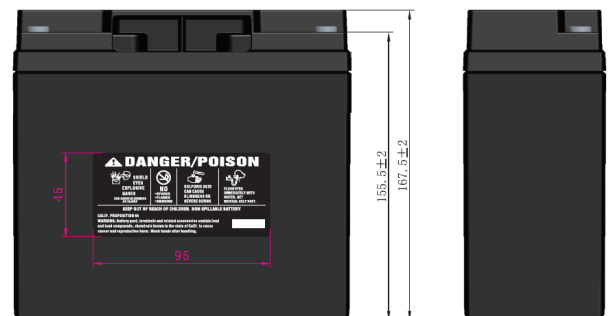
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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

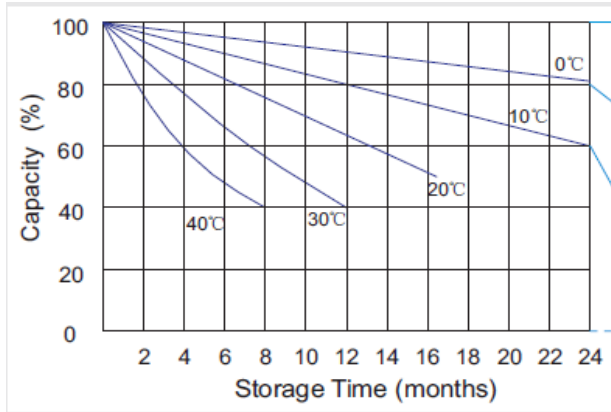


### FEATURES:

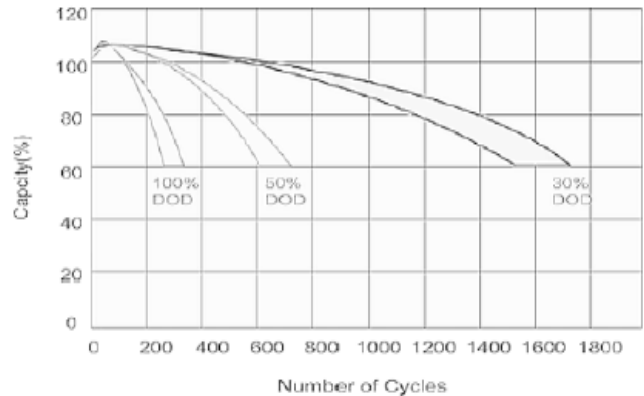
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



Storage Characteristics



Cycle Life of Deep Cycle



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	26.40	13.90	8.99	4.35	2.87	1.70	0.96
1.80V/cell	33.70	16.50	10.10	4.68	3.08	1.80	0.97
1.75V/cell	37.00	17.10	10.50	4.77	3.16	1.82	0.97
1.70V/cell	40.30	17.80	10.90	4.90	3.24	1.84	0.99
1.67V/cell	43.50	18.80	11.20	5.11	3.33	1.87	1.00
1.60V/cell	47.30	19.80	11.60	5.27	3.44	1.89	1.01

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	49.20	26.80	17.40	8.50	5.63	3.37	1.91
1.80V/cell	62.00	31.20	19.40	9.11	6.02	3.56	1.93
1.75V/cell	67.30	32.30	20.20	9.25	6.17	3.60	1.94
1.70V/cell	72.30	33.50	20.80	9.49	6.31	3.63	1.98
1.67V/cell	77.50	35.10	21.50	9.86	6.48	3.70	2.00
1.60V/cell	82.70	36.70	22.00	10.10	6.66	3.74	2.01

