

## DCM0090

### Technical Specifications

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

### Physical Specifications

Length	306mm	12.04in
Width	168mm	6.61in
Height	210mm	8.27in
Height w/Terminal	215mm	8.46in
Weight (+/- 5%)	28.30 Kg	62.39 lbs
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~14.8V	2.40V~2.47V
Max. Charge Current	27A	

### Capacity Specifications

5 Second Discharge Current	900A	
Self Discharge (to 80% capacity)	3 Months	91%
	6 Months	82%
	12 Months	64%
Internal Resistance	6.5mΩ(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)

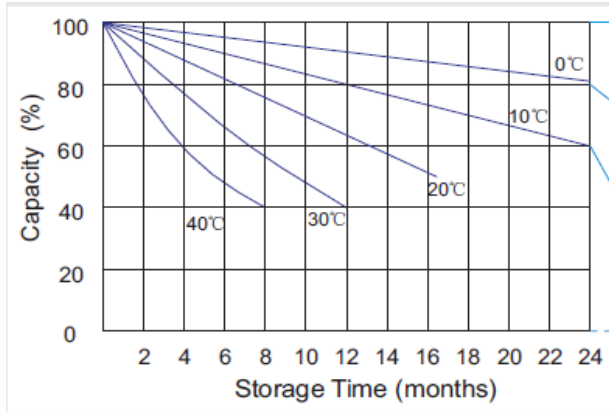


### FEATURES:

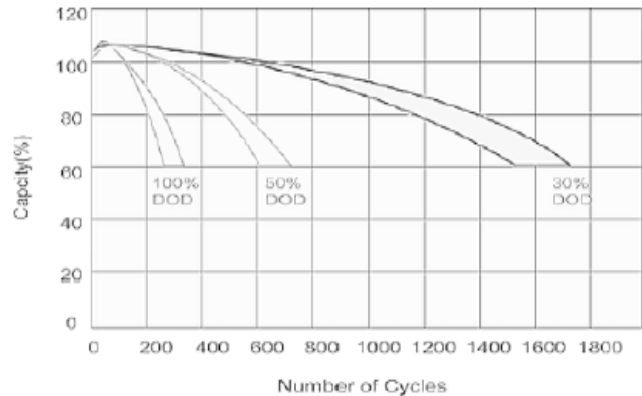
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



Storage Characteristics



Cycle Life of Deep Cycle



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

F.V/Time	10 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.60V/cell	131.80	69.70	44.90	21.80	14.30	8.50	4.78
1.67V/cell	168.40	82.30	50.30	23.45	15.40	9.00	4.82
1.70V/cell	185.00	85.40	52.70	23.90	15.80	9.09	4.87
1.75V/cell	201.60	88.90	54.30	24.50	16.20	9.18	4.96
1.80V/cell	217.60	93.80	56.20	25.60	16.60	9.37	5.02
1.85V/cell	236.30	99.00	58.10	26.30	17.20	9.47	5.05

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

F.V/Time	10 min	15 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.60V/cell	245.90	209.00	87.20	42.50	28.10	16.80	9.56
1.67V/cell	309.90	248.80	97.10	45.50	30.10	17.80	9.64
1.70V/cell	336.40	269.20	101.20	46.20	30.90	18.00	9.72
1.75V/cell	361.50	285.30	104.20	47.40	31.60	18.10	9.89
1.80V/cell	387.40	3301.30	107.30	49.30	32.40	18.50	10.00
1.85V/cell	413.40	318.40	110.20	50.60	33.30	18.70	10.00

