

## DCM0040

### Technical Specifications

Nominal Voltage	12V
Nominal Capacity	40Ah (20 Hr Rate to 1.75V/cell)
Chemistry	Lead Acid -AGM

### Physical Specifications

Length	199mm	7.84in
Width	166mm	6.54in
Height	174mm	6.73in
Height w/Terminal	161mm	6.73in
Weight (+/- 5%)	13.4Kg	29.50bs
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	12A	

### Capacity Specifications

5 Second Discharge Current	480A	
Self Discharge (to 80% capacity)	3 Months	91%
	6 Months	82%
	12 Months	64%
Internal Resistance	7.5mΩ(25°C)	

### Temperature Specifications

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

Recommended parameters for optimal battery life and performance:

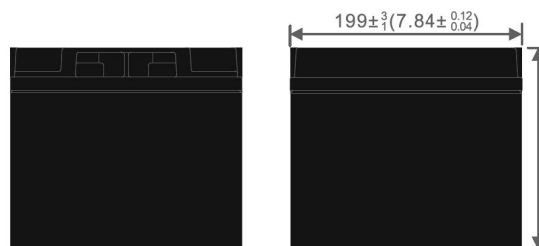
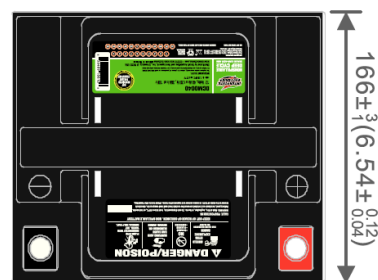
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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

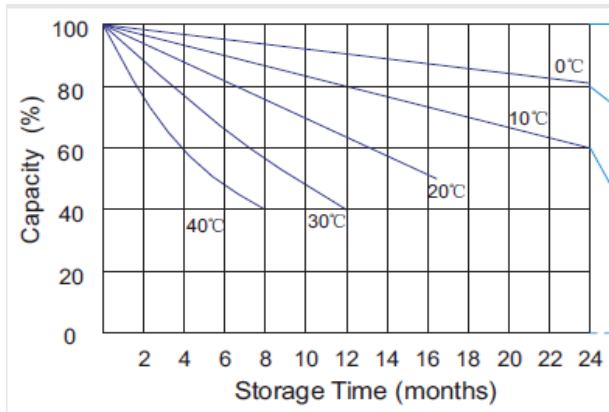


### FEATURES:

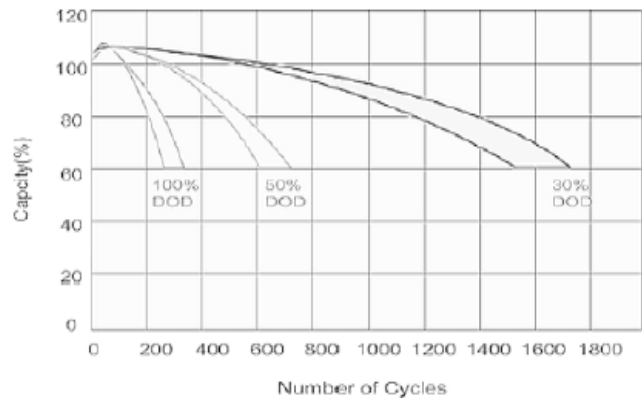
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



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
1.85V/cell	66.00	35.80	21.40	9.00	6.30	3.84	2.05
1.80V/cell	76.10	38.20	23.10	9.80	6.80	4.00	2.12
1.75V/cell	83.20	40.00	24.10	10.20	7.00	4.06	2.15
1.70V/cell	88.30	41.50	24.90	10.40	7.10	4.08	2.17
1.67V/cell	89.90	42.00	25.20	10.50	7.10	4.09	2.18
1.60V/cell	92.50	42.80	25.60	10.60	7.20	4.10	2.18

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	10 min	15 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	87.80	72.30	42.60	18.00	12.50	7.59	4.07
1.80V/cell	107.20	87.30	45.10	19.40	13.30	7.86	4.22
1.75V/cell	122.40	99.00	46.70	20.10	13.70	7.97	4.28
1.70V/cell	135.20	109.00	47.70	20.40	13.90	8.01	4.31
1.67V/cell	141.10	113.70	48.10	20.60	13.90	8.03	4.32
1.60V/cell	148.80	119.90	48.60	20.80	14.00	8.06	4.33

