

## DCM0055

### Technical Specifications

Nominal Voltage	12V
Nominal Capacity	55Ah (20 Hr Rate to 1.75V/cell)
Chemistry	Lead Acid -AGM

### Physical Specifications

Length	229mm	9.02in
Width	138mm	5.43in
Height	210mm	8.27in
Height w/Terminal	216mm	8.50in
Weight (+/- 5%)	17.64Kg	37.50bs
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	16.5A	

### Capacity Specifications

5 Second Discharge Current	550A	
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:

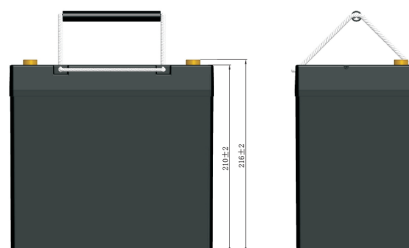
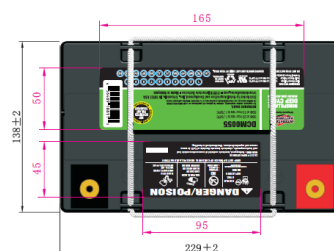
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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

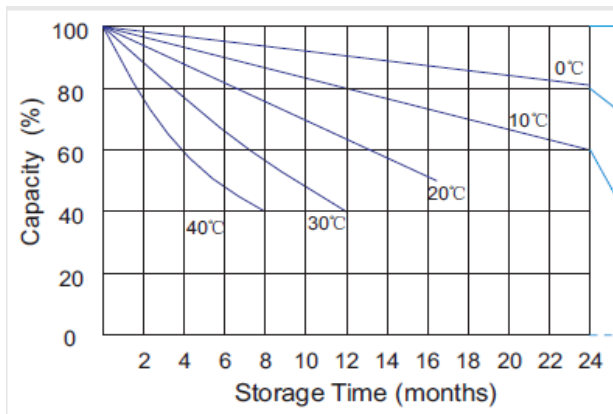


### FEATURES:

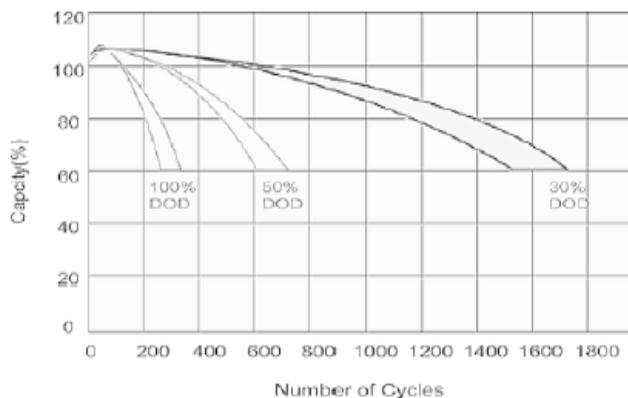
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



Storage Characteristics



Cycle Life of Deep Cycle



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	132.00	49.50	28.40	12.40	8.83	5.28	2.81
1.80V/cell	151.00	52.80	30.70	13.60	9.57	5.52	2.90
1.75V/cell	167.00	55.20	32.10	14.30	10.00	5.50	2.95
1.70V/cell	181.00	57.00	33.00	14.80	10.32	5.66	2.98
1.67V/cell	192.00	58.40	33.60	15.10	10.56	5.69	2.99
1.60V/cell	203.00	59.60	34.10	15.30	10.71	5.72	3.01

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	182.00	96.40	56.50	24.70	17.60	10.43	5.60
1.80V/cell	234.00	102.80	60.00	26.70	18.80	10.82	5.76
1.75V/cell	273.00	107.40	61.70	28.20	19.70	10.78	5.85
1.70V/cell	295.00	110.60	63.00	29.10	20.30	11.12	5.92
1.67V/cell	316.00	113.10	64.00	29.70	20.70	11.21	5.95
1.60V/cell	332.00	115.10	64.80	30.20	20.90	11.26	5.96