

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:

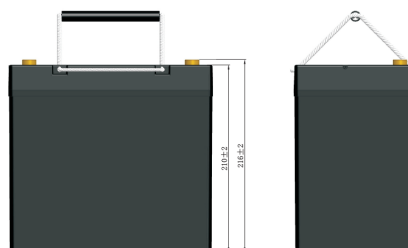
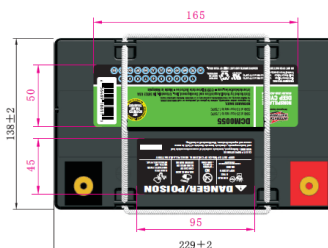
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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

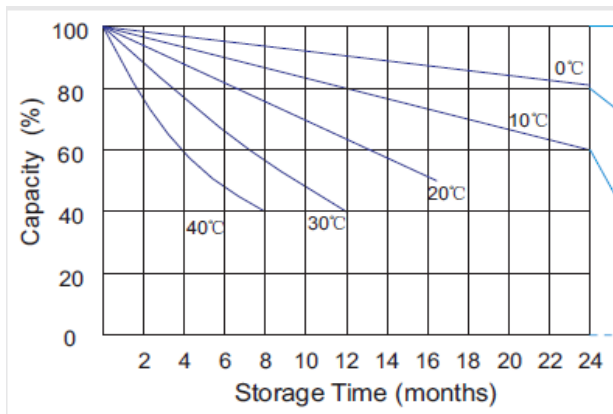


FEATURES:

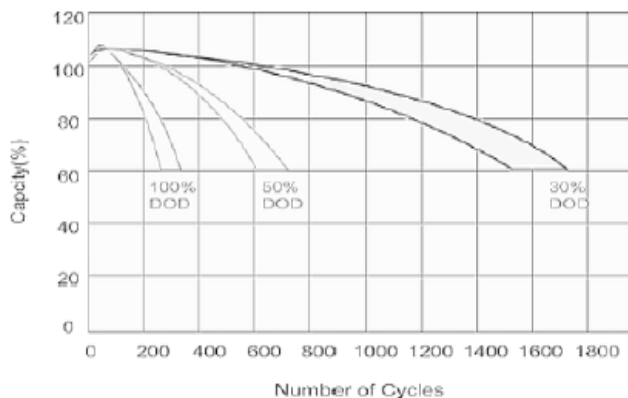
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



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 |

