

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:

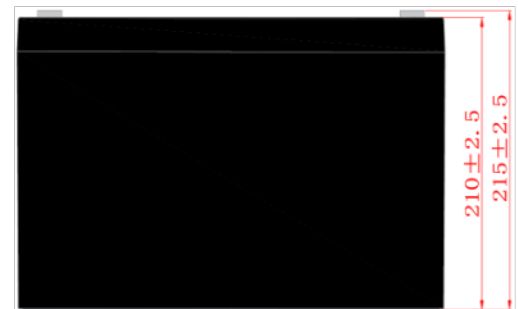
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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



FEATURES:

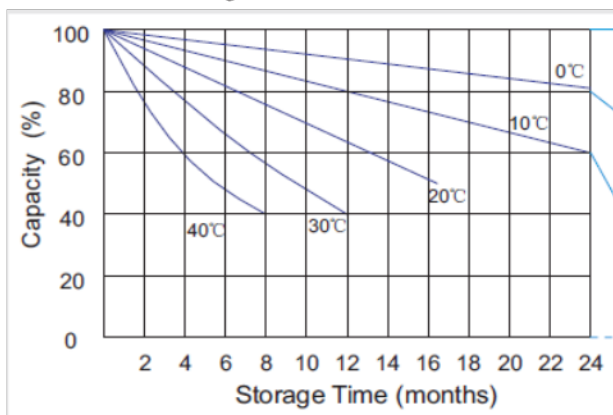
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



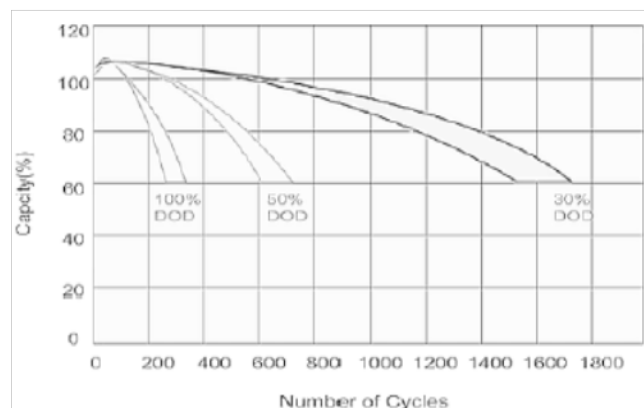
DEEP CYCLE



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 |