# DC35-12B DATA SHEET

## DC35-12B

**35AH@20HR**
**12-Volt**

**DEEP CYCLE**

**Maintenance-Free**
**Sealed AGM Battery**

## Nominal Specifications

| Battery Model | DC35-12B | Rated Capacity | 35AH/20HR |
|---|---|---|---|

## Mechanical Specifications

| | | |
|---|---|---|
| Group Size | U1 | |
| Overall Height (H) | 180±2mm | 7.04" |
| Container Height (h) | 167±2mm | 6.54" |
| Length | 196±2mm | 7.72" |
| Width | 131±2mm | 5.16" |
| Weight | Approx.11.2kg | 24.69lbs. |
| Terminal Type | F25- L Terminal | |
| Terminal Torque | -- | |
| Container Material | ABS：Standard（UL 94-HB） | |

## Electrical Specifications

| | |
|---|---|
| C100 | 39AH |
| C20 | 35AH |
| C10 | 32AH |
| C5 | 29.0AH |
| CCA | 190A |
| CA or MCA | 230A |
| HPCA | 270A |
| Max. Discharge Current | 450A (5s) |
| Internal Resistance | 5.5mΩ |

## Reserve Capacity

| | |
|---|---|
| Reserve @25 AMPS | 52 Minutes |
| Reserve @75 AMPS | / |

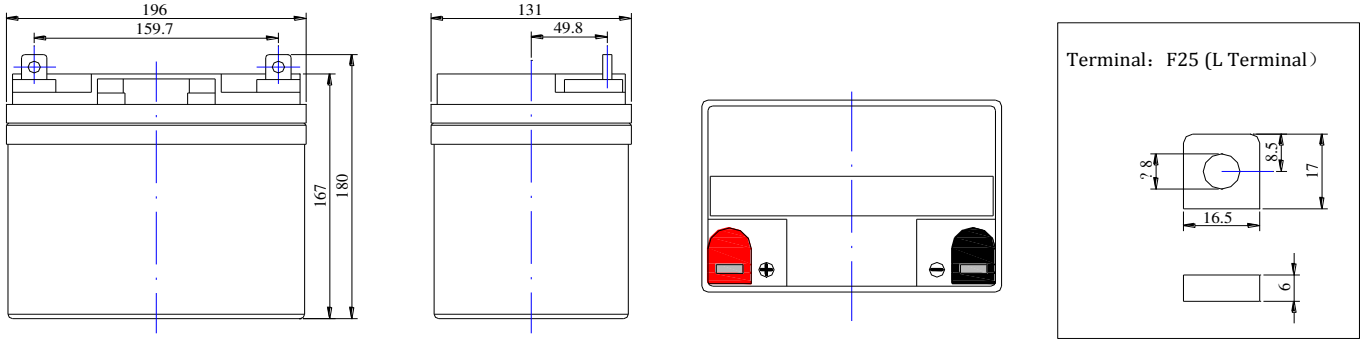
## Temperature Range Specifications

| | |
|---|---|
| Operating Temperature Range | Discharge : -15℃ ~+ 50℃ (5℉~122℉) |
| | Charge: -15℃ ~ +40℃ (5℉~104℉) |
| | Storage: -15℃ ~ +40℃ (5℉~104℉) |
| Recommended Operating Temperature Range | +74℉(23℃) to +80℉(27℃) |
| Self-Discharge | Less than 10% after 90 days, can be stored up to 6 months at 25℃ (77℉);Fully recharging is required before usage, For higher temperatures the time interval will be shorter. |

## Charge Voltages

| | | |
|---|---|---|
| Float Charging Voltage | 13.5 to 13.8 VDC/unit@ (25°C) | |
| Equalization and Cycle Service Charging Voltage | 14.3 to 14.5 VDC/unit @(25°C) | |
| Maximum Charge Current(A) | 8.8A | |
| Charging Temperature Compensation | Cycle use | -4mV/cell/℃ |
| | Float use | -3mV/cell/℃ |

## BATTERY & TERMINAL DIMENSIONS (All units shown in mm)




**Battery bank spacing required 12.5mm (1/2"inch) minimum**

## Constant Current Discharge Rating Amperes @ 77℉(25℃)

| Cut off voltage V/cell | 15M | 30M | 45M | 1H | 2H | 3H | 5H | 8H | 10H | 12H | 20H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.75V | 48 | 35 | 26.3 | 20.6 | 10.7 | 7.9 | 5.6 | 3.9 | 3.2 | 2.7 | 1.75 |

**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.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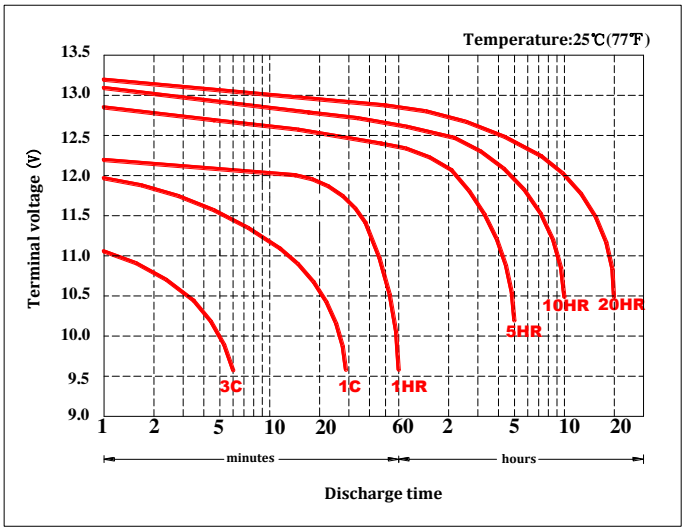
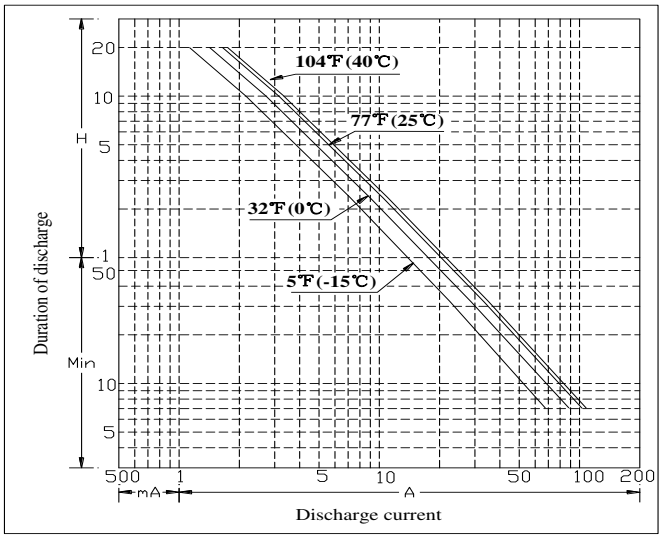
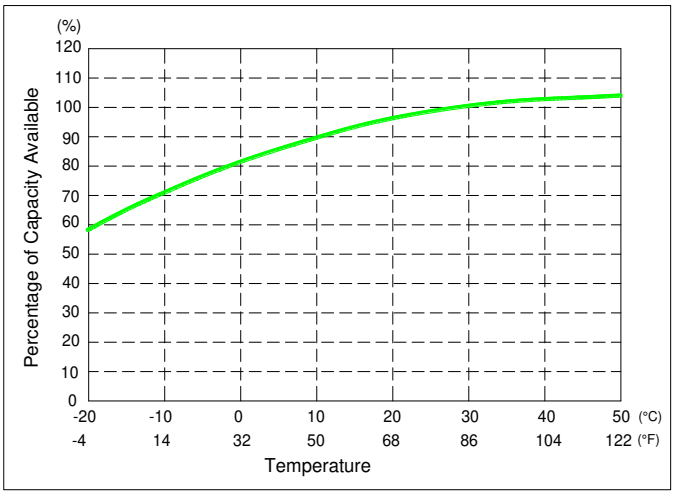
## Terminal Voltage(V) and Discharge Time



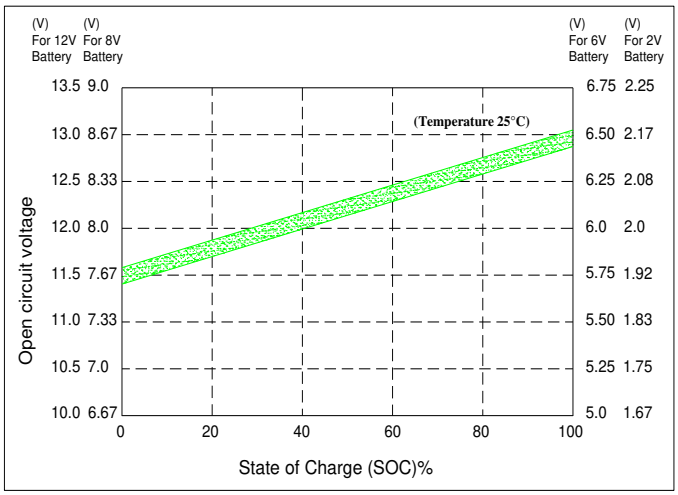

## Duration of discharge vs. Discharge current



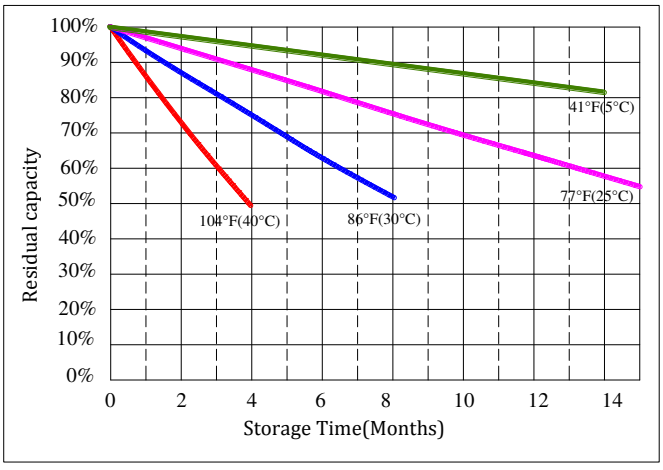

## Percent Capacity vs. Temperature



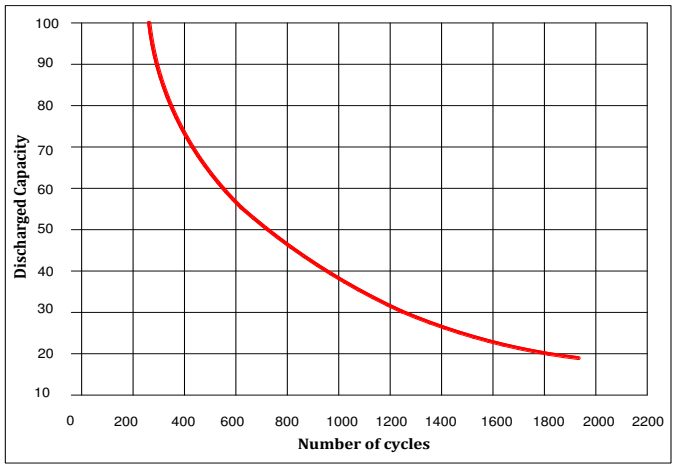

## State of Charge(SOC) vs Open Circuit Voltage(OCV)




## Capacity Retention Characteristic




## Cycle Life vs. Depth of Discharge(DOD)





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