# DC60-12A DATA SHEET


## DC60-12A

**60AH@20HR**
**12-Volt**

**DEEP CYCLE**

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

## Nominal Specifications

| Battery Model | DC60-12A | Rated Capacity | 60AH/20HR |
|---|---|---|---|

## Mechanical Specifications

| | | |
|---|---|---|
| Group Size | 48 | |
| Overall Height (H) | 188±2mm | 7.40" |
| Container Height (h) | 188±2mm | 7.40" |
| Length | 265±2mm | 10.43" |
| Width | 166±2mm | 6.54" |
| Weight | Approx.21.6kg | 47.62lbs. |
| Terminal Type | AP- Auto Post Terminal | |
| Terminal Torque | 5.6-7.9 N.m | |
| Container Material | ABS Standard ¯UL 94-HB ¯ | |

## Electrical Specifications

| | |
|---|---|
| C100 | 66AH |
| C20 | 60AH |
| C10 | 54AH |
| C5 | 49.2AH |
| CCA | 410A |
| CA or MCA | 485A |
| HPCA | 580A |
| Max. Discharge Current | 900A (5s) |
| Internal Resistance | 5.0mΩ |

## Reserve Capacity

| | |
|---|---|
| Reserve @25 AMPS | 95 Minutes |
| Reserve @75 AMPS | 24 Minutes |

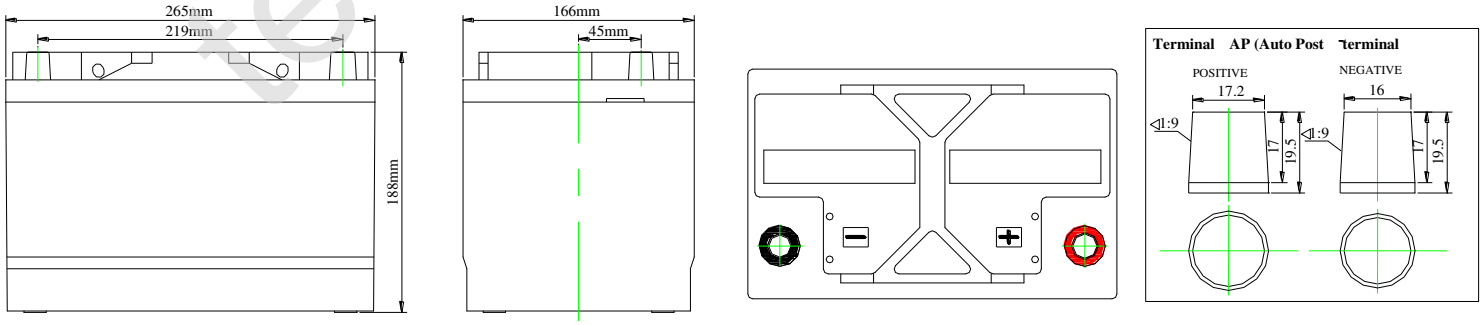
## Temperature Range Specifications

| | |
|---|---|
| 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) | 15A | |
| 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 | 87 | 55.9 | 41.3 | 34.1 | 18.1 | 13.58 | 9.52 | 6.53 | 5.40 | 4.60 | 3.00 |

**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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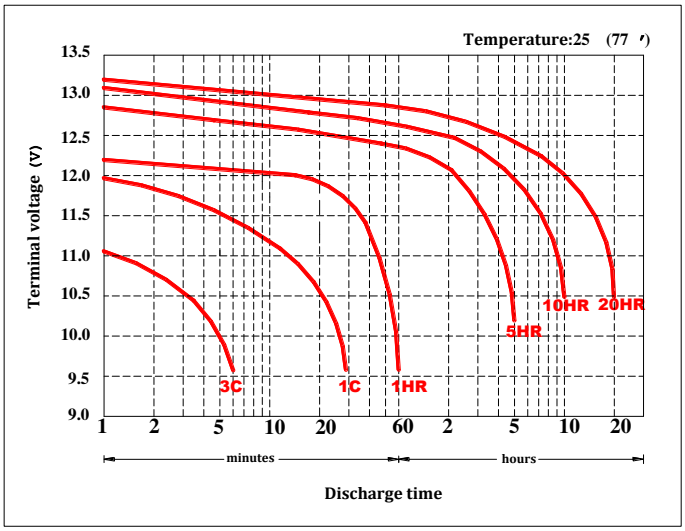
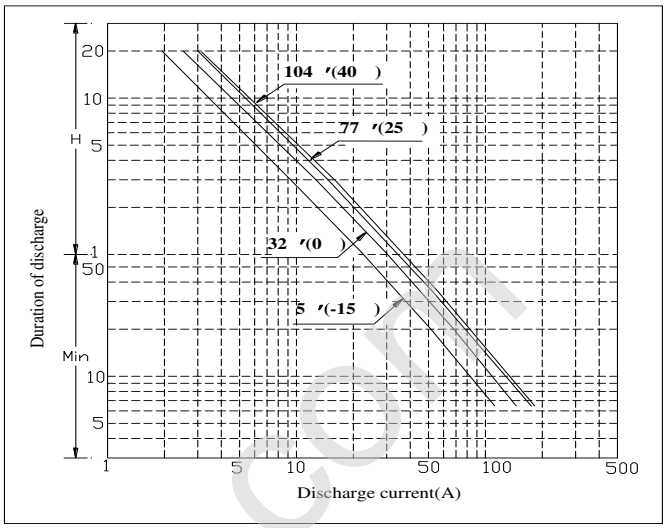
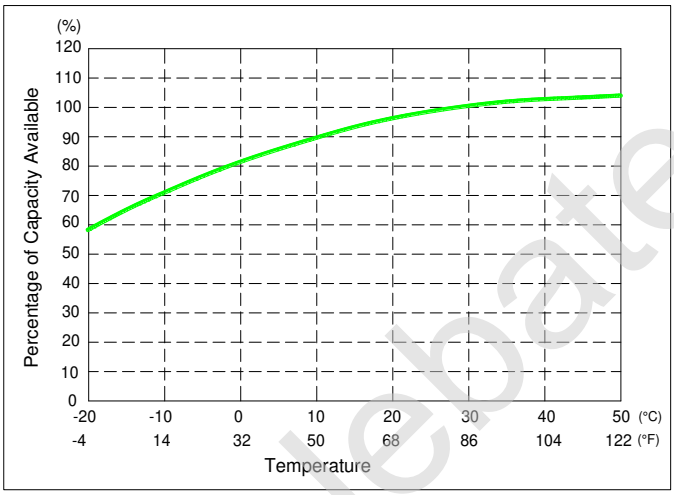
## Terminal Voltage(V) and Discharge Time



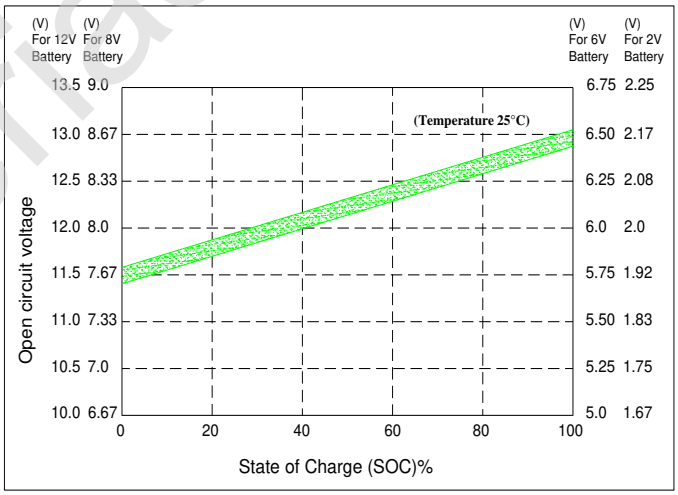

## Duration of discharge vs. Discharge current



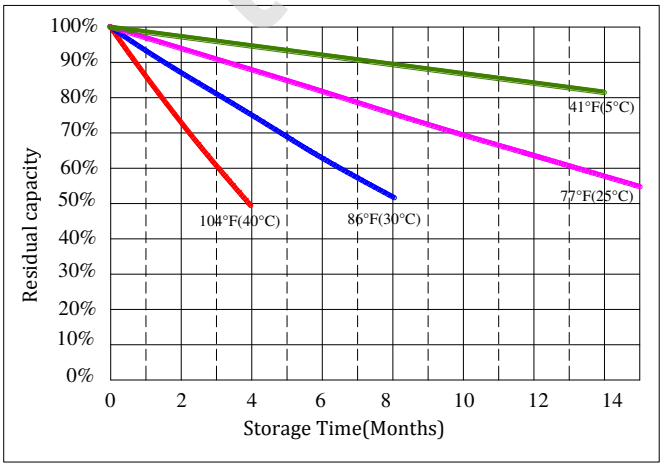

## Percent Capacity vs. Temperature




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




## Capacity Retention Characteristic




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