# DC115-12A DATA SHEET


## DC115-12A

**115AH@20HR**
**12-Volt**

**DEEP CYCLE**

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

## Nominal Specifications

| Battery Model | DC115-12A | Rated Capacity | 115AH/20HR |
|---|---|---|---|

## Mechanical Specifications

| | | |
|---|---|---|
| Group Size | 31 | |
| Overall Height (H) | 220±2mm | 8.66" |
| Container Height (h) | 214±2mm | 8.43" |
| Length | 330±2mm | 12.99" |
| Width | 173±2mm | 6.81" |
| Weight | Approx.32.7kg | 72.09bs. |
| Terminal Type | M8- Button Terminal | |
| Terminal Torque | 9.6-10.7 N.m | |
| Container Material | ABS：Standard（UL 94-HB） | |

## 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. |

## Electrical Specifications

| | |
|---|---|
| C100 | 128AH |
| C20 | 115AH |
| C10 | 104AH |
| C5 | 91AH |
| CCA | 600A |
| CA or MCA | 710A |
| HPCA | 850A |
| Max. Discharge Current | 1100A (5s) |
| Internal Resistance | 3.0mΩ |

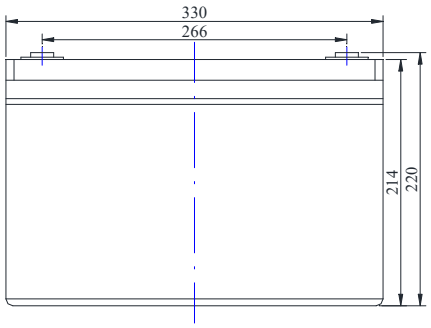
## Reserve Capacity

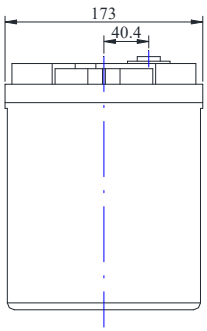
| | |
|---|---|
| Reserve @25 AMPS | 175 Minutes |
| Reserve @75 AMPS | 43 Minutes |

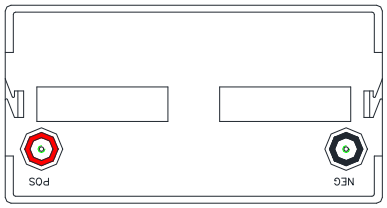
## Charge Voltages

| | | |
|---|---|---|
| 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) | 30A | |
| Charging Temperature Compensation | Cycle use | -4mV/cell/℃ |
| | Float use | -3mV/cell/℃ |

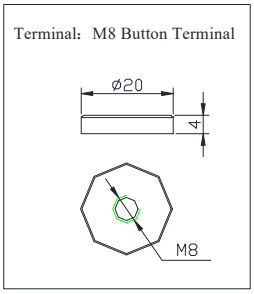
## BATTERY & TERMINAL DIMENSIONS (All units shown in mm)




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 | 165 | 104.5 | 75.1 | 62.1 | 33.0 | 24.6 | 17.5 | 11.9 | 10.4 | 8.8 | 5.75 |

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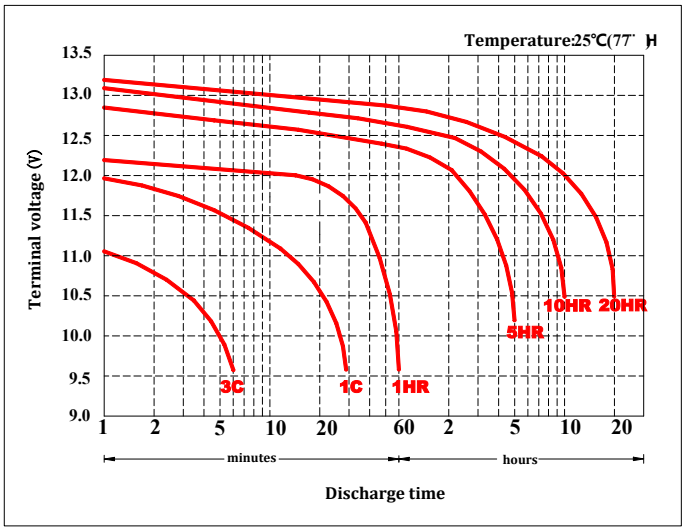
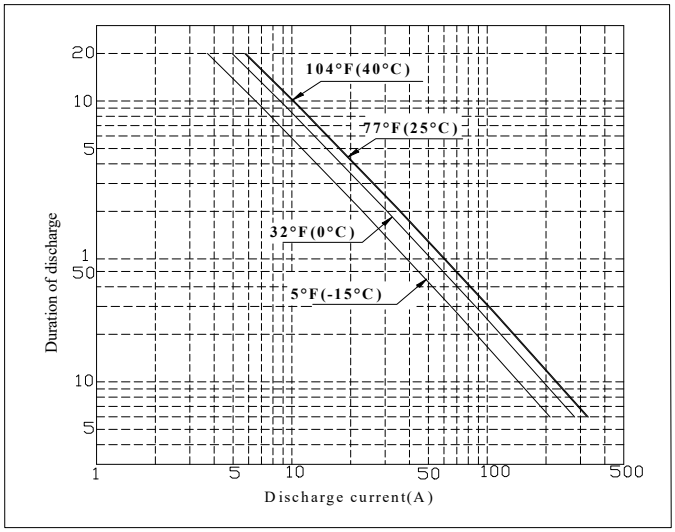
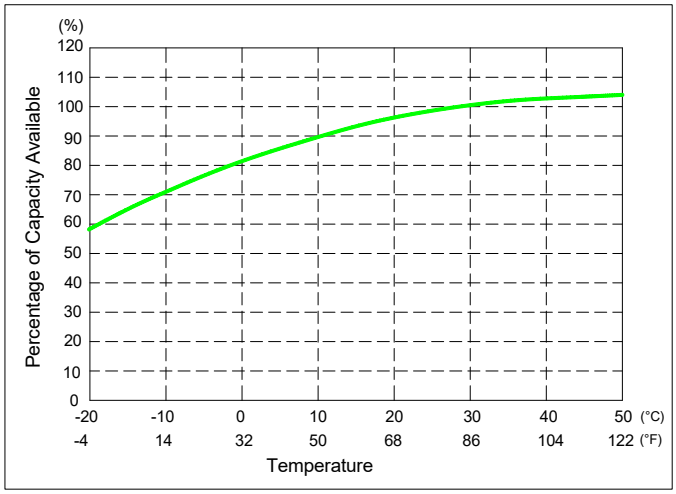
## Terminal Voltage(V) and Discharge Time



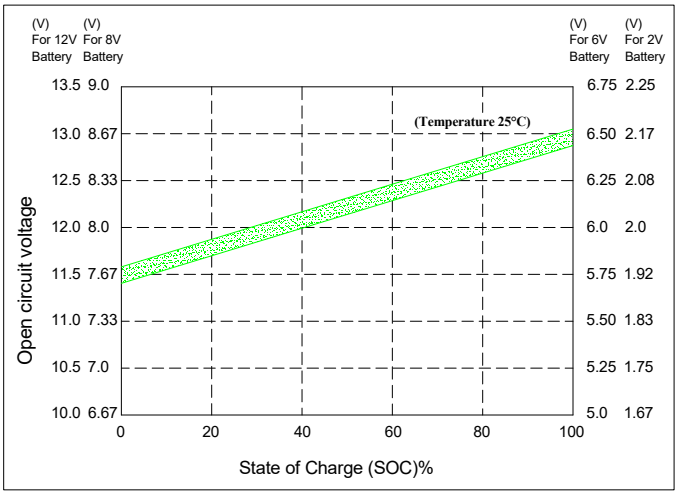

## Duration of discharge vs. Discharge current



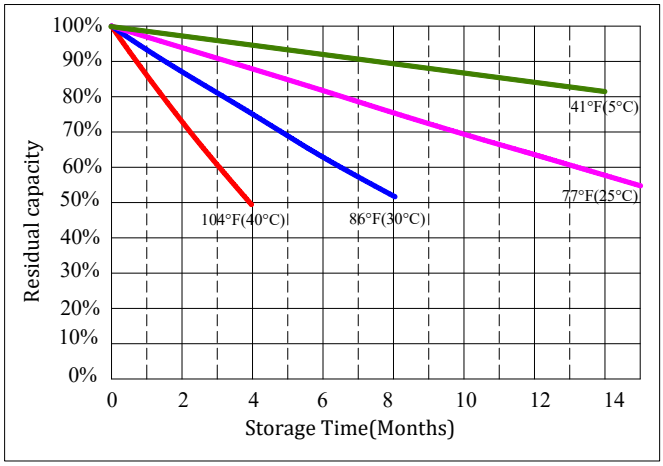

## Percent Capacity vs. Temperature




## State of Charge(SOC) vs Open Circuit




## Capacity Retention Characteristic




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