

# DC150-12 DATA SHEET



## DC150-12

150AH@20HR

12-Volt

DEEP CYCLE

Maintenance-Free  
Sealed AGM Battery

### Nominal Specifications

| Battery Model | DC150-12 | Rated Capacity | 150AH/20HR |
|---------------|----------|----------------|------------|
|---------------|----------|----------------|------------|

### Mechanical Specifications

| Group Size           | GC12                  |           |
|----------------------|-----------------------|-----------|
| Overall Height (H)   | 273±2mm               | 10.75"    |
| Container Height (h) | 269±2mm               | 10.59"    |
| Length               | 327±2mm               | 12.87"    |
| Width                | 182±2mm               | 7.17"     |
| Weight               | Approx.43.6kg         | 96.12lbs. |
| Terminal Type        | M8- Button Terminal   |           |
| Terminal Torque      | 9.6-10.7 N.m          |           |
| Container Material   | ABS Standard UL 94-HB |           |

### Electrical Specifications

| C100                   | 165AH      |
|------------------------|------------|
| C20                    | 150AH      |
| C10                    | 135AH      |
| C5                     | 123AH      |
| CCA                    | 900A       |
| CA or MCA              | 1050A      |
| HPCA                   | 1250A      |
| Max. Discharge Current | 1500A (5s) |
| Internal Resistance    | 3.5mΩ      |
| Reserve Capacity       |            |
| Reserve @25 AMPS       | 295Minutes |
| Reserve @75 AMPS       | 80Minutes  |

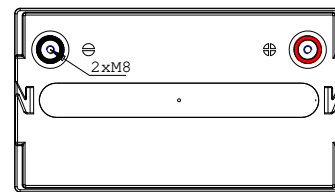
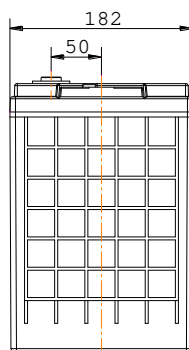
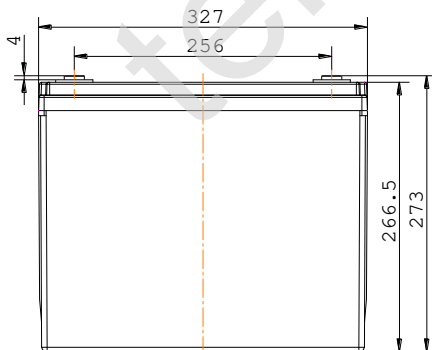
### Temperature Range Specifications

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

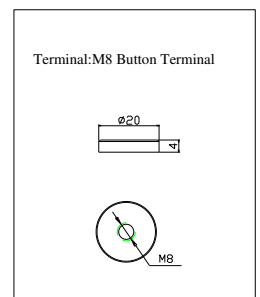
### Charge Voltages

| 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)                       | 40A                            |            |
| 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 °F (25 °C)

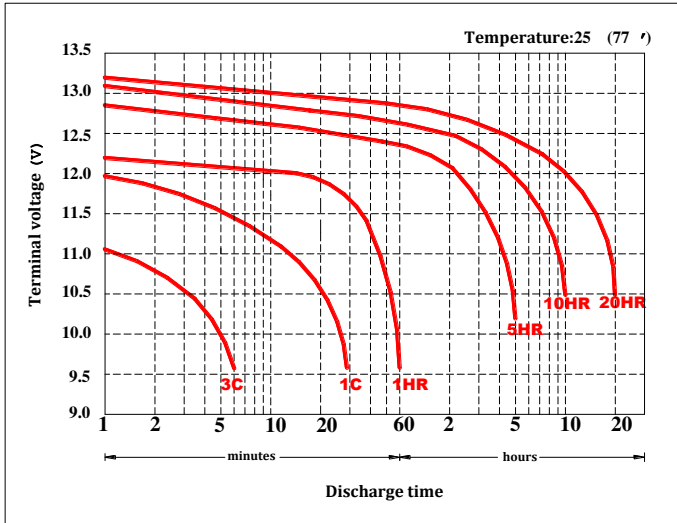
| Cut off voltage V/cell | 15M | 30M | 45M | 1H   | 2H   | 3H   | 5H | 8H   | 10H   | 12H   | 20H  |
|------------------------|-----|-----|-----|------|------|------|----|------|-------|-------|------|
| 1.75V                  | 220 | 144 | 105 | 85.5 | 51.2 | 34.0 | 24 | 16.3 | 13.50 | 11.50 | 7.50 |

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

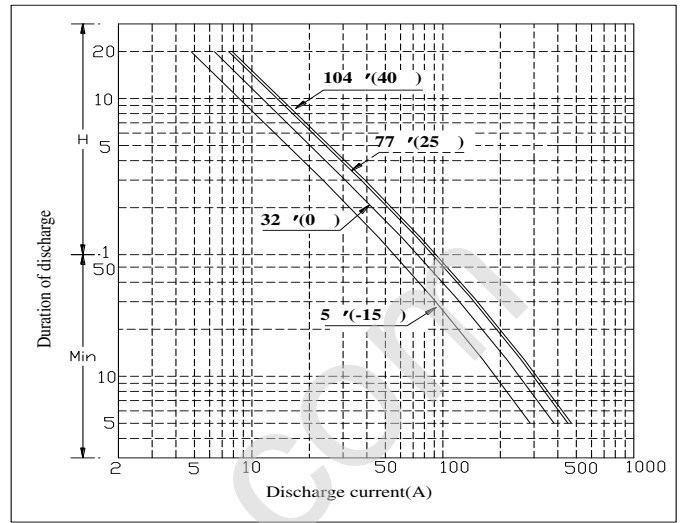


# DC150-12 DATA SHEET

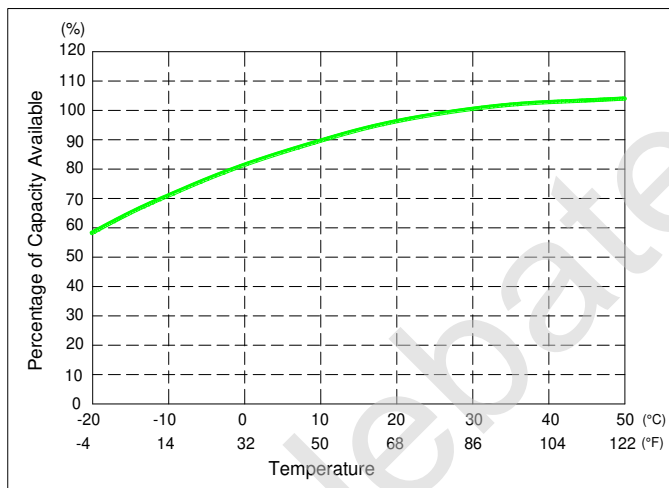
## Terminal Voltage(V) and Discharge Time



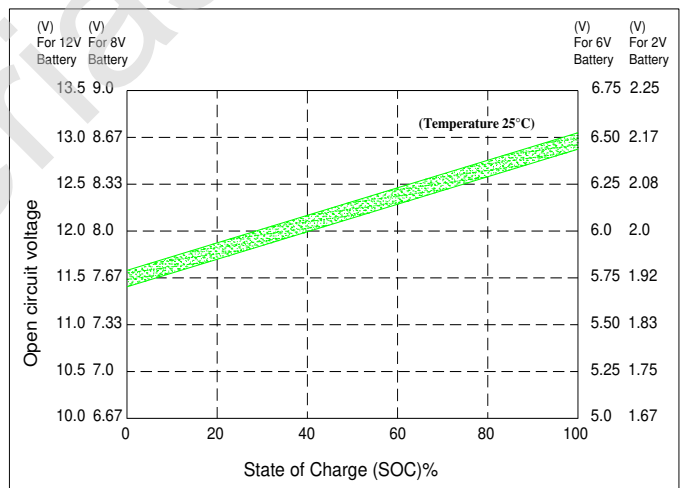
## Duration of discharge vs. Discharge current



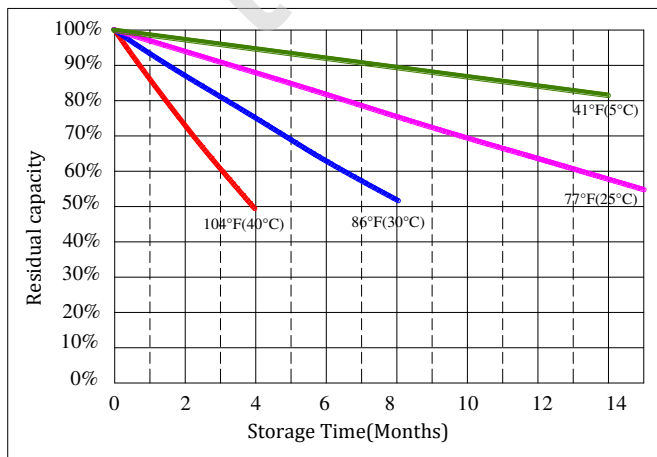
## Percent Capacity vs. Temperature



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



## Capacity Retention Characteristic



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

