

# DC150-12 DATA SHEET



## DC150-12

**150AH@20HR**

**12-Volt**

**DEEP CYCLE**

**Maintenance-Free  
Sealed AGM Battery**

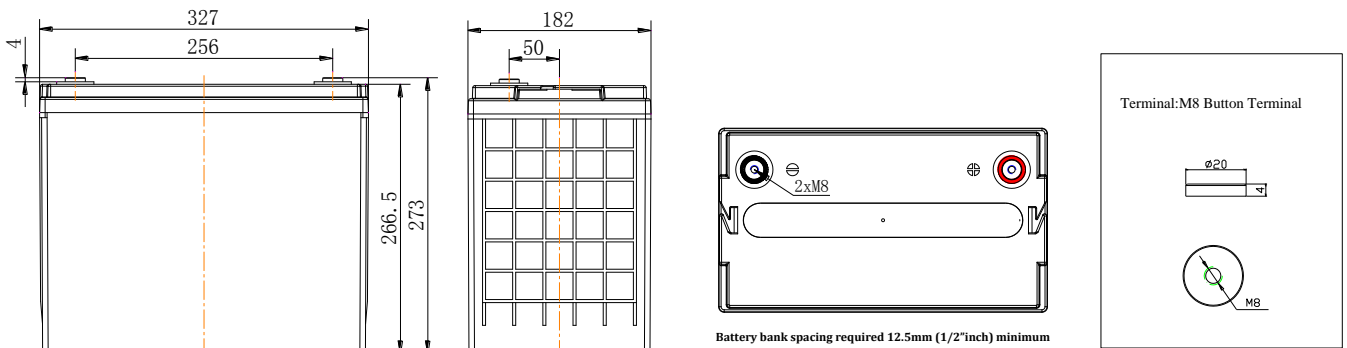
<b>Nominal Specifications</b>			
<b>Battery Model</b>	<b>DC150-12</b>	<b>Rated Capacity</b>	<b>150AH/20HR</b>
<b>Mechanical Specifications</b>			
<b>Group Size</b>	GC12		
<b>Overall Height (H)</b>	273±2mm	10.75"	
<b>Container Height (h)</b>	269±2mm	10.59"	
<b>Length</b>	327±2mm	12.87"	
<b>Width</b>	182±2mm	7.17"	
<b>Weight</b>	Approx.43.6kg	96.12lbs.	
<b>Terminal Type</b>	M8- Button Terminal		
<b>Terminal Torque</b>	9.6-10.7 N.m		
<b>Container Material</b>	ABS: Standard (UL 94-HB)		

<b>Electrical Specifications</b>	
<b>C100</b>	165AH
<b>C20</b>	150AH
<b>C10</b>	135AH
<b>C5</b>	120AH
<b>CCA</b>	900A
<b>CA or MCA</b>	1050A
<b>HPCA</b>	1250A
<b>Max. Discharge Current</b>	1500A (5s)
<b>Internal Resistance</b>	3.5mΩ
<b>Reserve Capacity</b>	
<b>Reserve @25 AMPS</b>	280Minutes
<b>Reserve @75 AMPS</b>	65Minutes

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

<b>Charge Voltages</b>		
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit@ (25°C)	
<b>Equalization and Cycle Service Charging Voltage</b>	14.3 to 14.5 VDC/unit @ (25°C)	
<b>Maximum Charge Current(A)</b>	40A	
<b>Charging Temperature Compensation</b>	Cycle use	-4mV/cell/°C
	Float use	-3mV/cell/°C

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



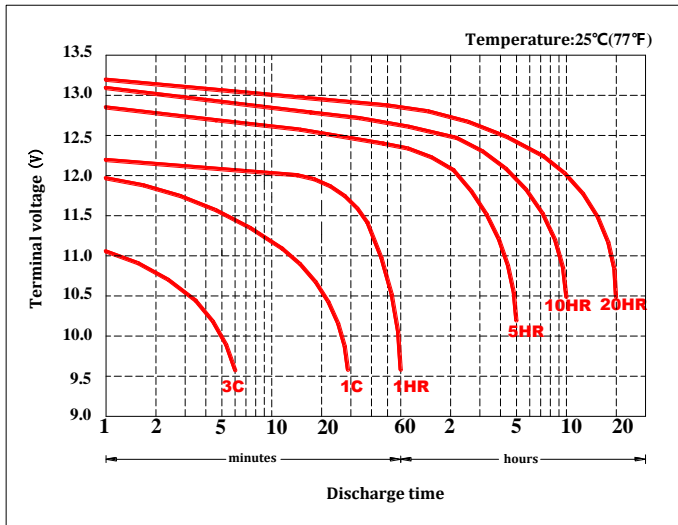
<b>Constant Current Discharge Rating Amperes @ 77°F (25°C)</b>											
Cut off voltage V/cell	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H
1.75V	220	144	105	85	51.2	34.0	24	16.3	13.50	11.50	7.50

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

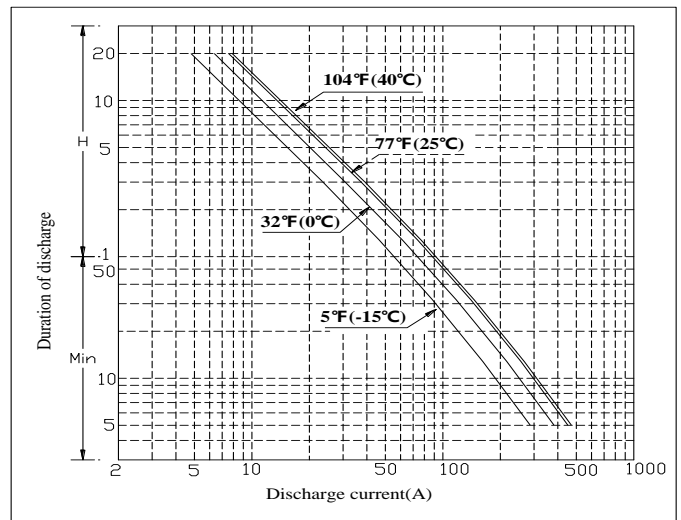


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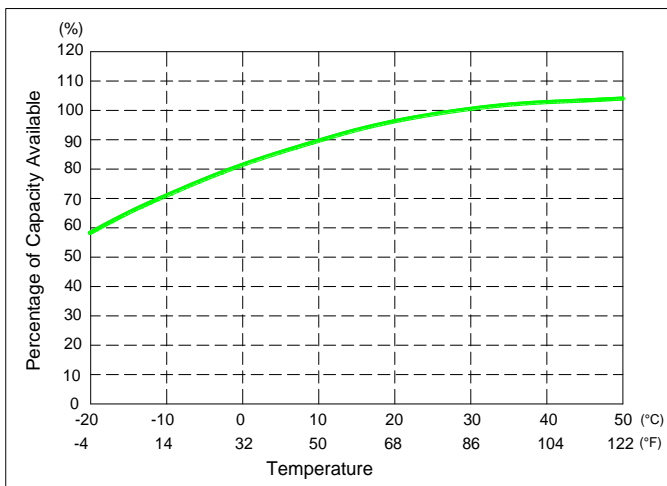
## Terminal Voltage(V) and Discharge Time



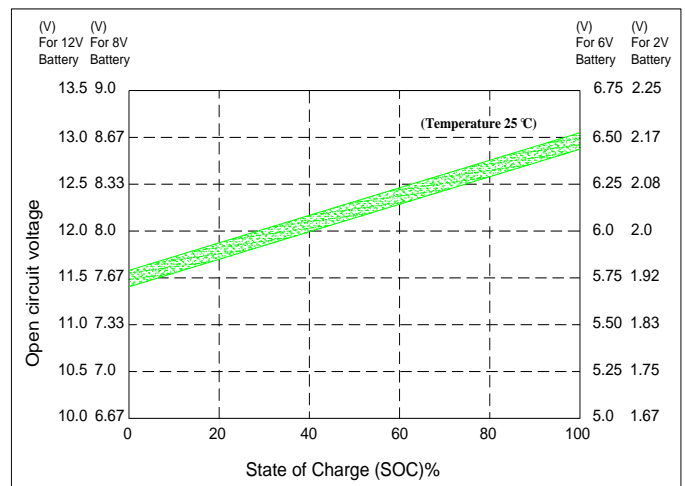
## Duration of discharge vs. Discharge current



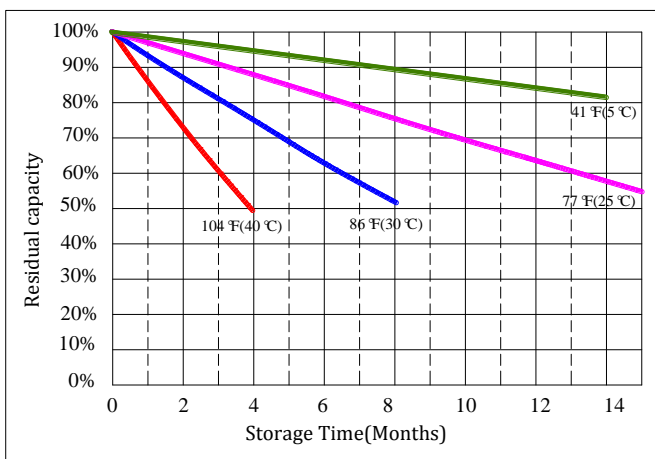
## Percent Capacity vs. Temperature



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



## Capacity Retention Characteristic



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

