



## DC55-12

**55AH@20HR**

**12-Volt**

**DEEP CYCLE**

**Maintenance-Free  
Sealed AGM Battery**

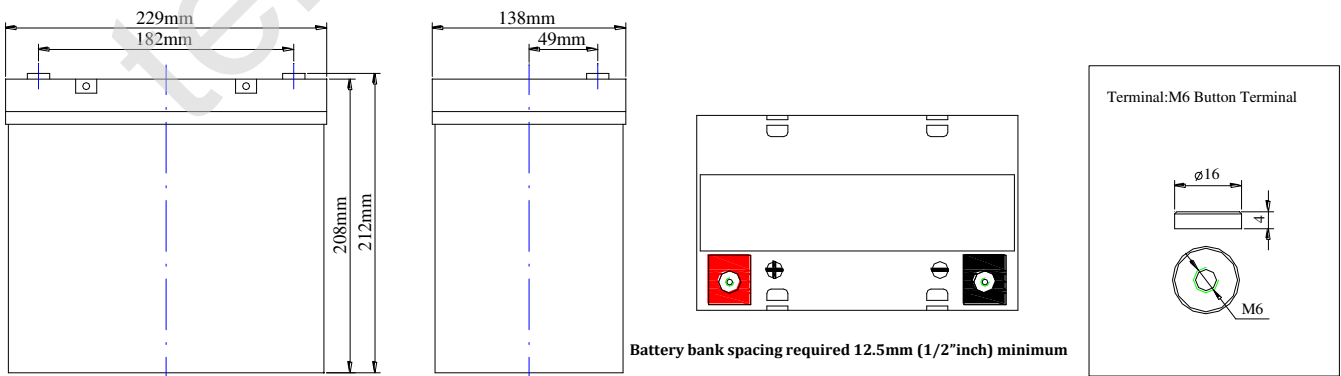
<b>Nominal Specifications</b>			
<b>Battery Model</b>	DC55-12	<b>Rated Capacity</b>	55AH/20HR
<b>Mechanical Specifications</b>			
<b>Group Size</b>	22NF		
<b>Overall Height (H)</b>	212±2mm	8.35"	
<b>Container Height (h)</b>	208±2mm	8.19"	
<b>Length</b>	229±2mm	9.02"	
<b>Width</b>	138±2mm	5.43"	
<b>Weight</b>	Approx.17.6kg	38.80lbs.	
<b>Terminal Type</b>	M6- Button Terminal		
<b>Terminal Torque</b>	5.6-7.9 N.m		
<b>Container Material</b>	ABS Standard "UL 94-HB "		

<b>Electrical Specifications</b>	
<b>C100</b>	61AH
<b>C20</b>	55AH
<b>C10</b>	50AH
<b>C5</b>	45AH
<b>CCA</b>	400A
<b>CA or MCA</b>	480A
<b>HPCA</b>	570A
<b>Max. Discharge Current</b>	825A (5s)
<b>Internal Resistance</b>	6.0mΩ
<b>Reserve Capacity</b>	
<b>Reserve @25 AMPS</b>	96 Minutes
<b>Reserve @75 AMPS</b>	21 Minutes

<b>Temperature Range Specifications</b>	
<b>Operating Temperature Range</b>	Discharge : -15 ~+ 50 (5 ~122 °)
	Charge: -15 ~+40 (5 ~104 °)
	Storage: -15 ~+40 (5 ~104 °)
<b>Recommended Operating Temperature Range</b>	+74 °(23 °) to +80 °(27 °)
<b>Self-Discharge</b>	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.

<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>	13.8A
<b>Charging Temperature Compensation</b>	Cycle use -4mV/cell/
	Float use -3mV/cell/

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



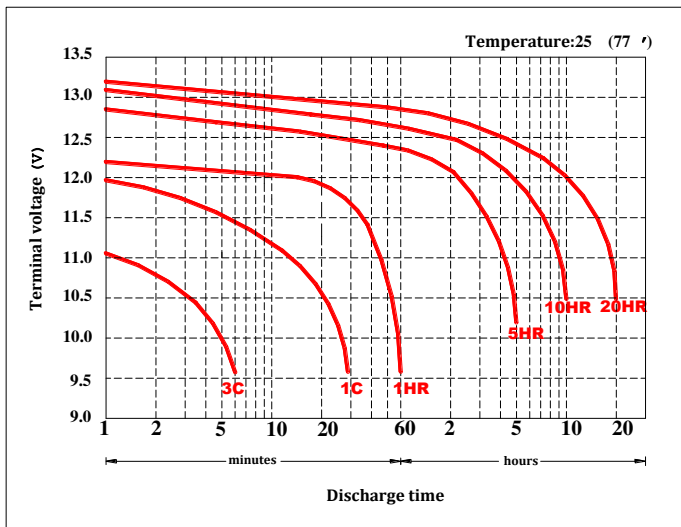
<b>Constant Current Discharge Rating Amperes @ 77 °(25 °)</b>											
Cut off voltage V/cell	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H
1.75V	81	49	41	31.3	16.6	12.5	8.7	6.0	5.00	4.22	2.75

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

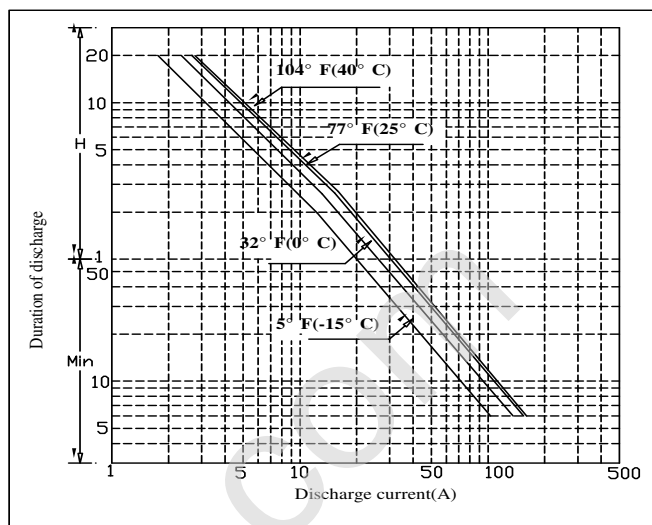


# DC55-12 DATA SHEET

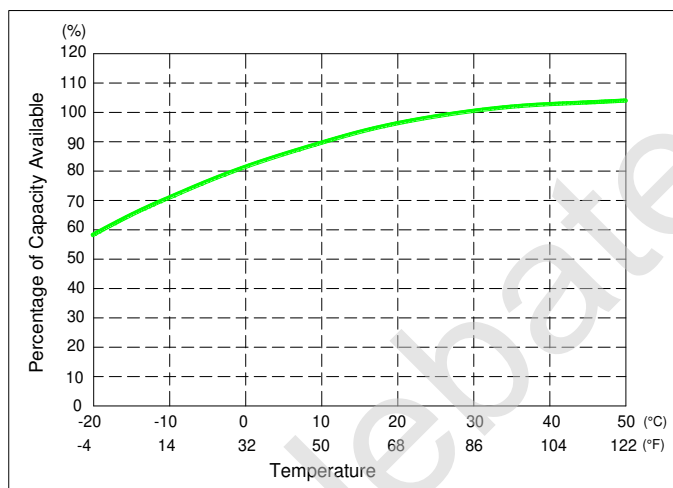
## Terminal Voltage(V) and Discharge Time



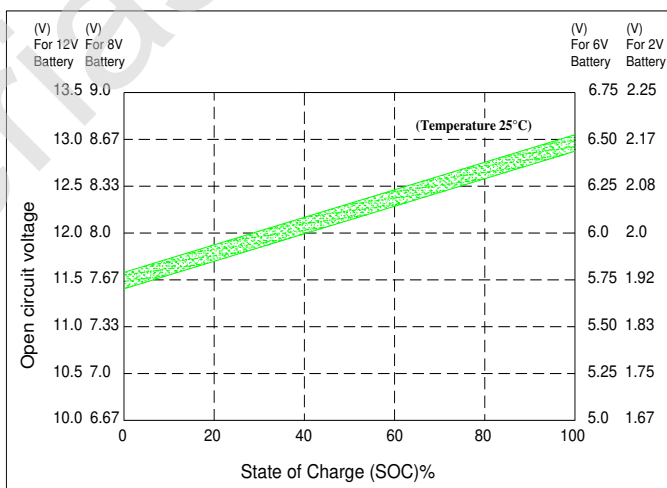
## Duration of discharge vs. Discharge current



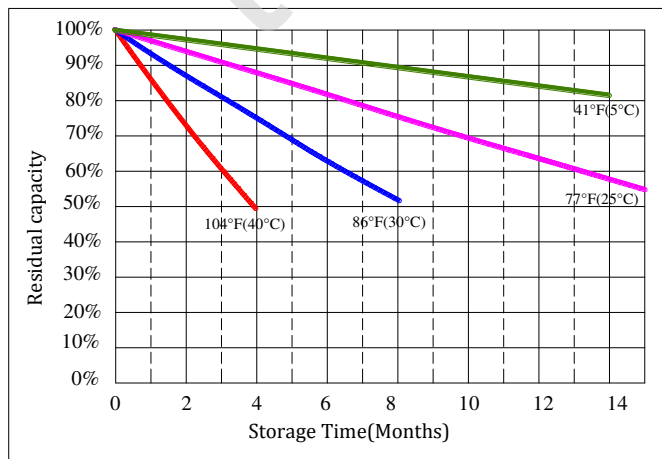
## Percent Capacity vs. Temperature



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



## Capacity Retention Characteristic



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

