

# DC65-12B DATA SHEET



## DC65-12B

65AH@20HR

12-Volt

DEEP CYCLE

Maintenance-Free  
Sealed AGM Battery

### Nominal Specifications

Battery Model	DC65-12B	Rated Capacity	65AH/20HR
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### Mechanical Specifications

Group Size	34	
Overall Height (H)	186.5±2mm	7.34"
Container Height (h)	182.5±2mm	7.19"
Length	261±2mm	10.28"
Width	171.5±2mm	6.75"
Weight	Approx.21.3kg	46.96lbs.
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°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)
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°C (77°F); Fully recharging is required before usage, For higher temperatures the time interval will be shorter.

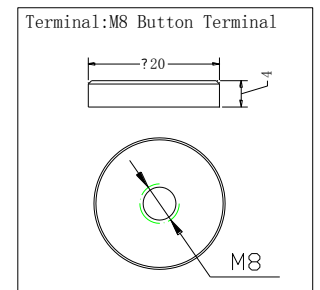
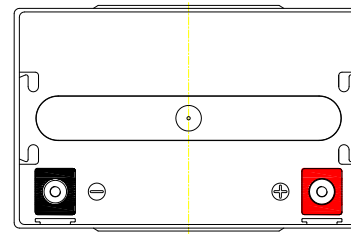
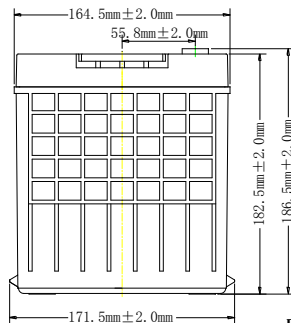
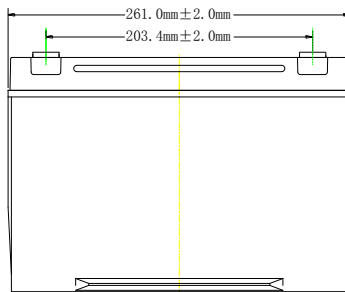
### Electrical Specifications

C100	72AH
C20	65AH
C10	58.5AH
C5	53 AH
CCA	490A
CA or MCA	585A
HPCA	700A
Max. Discharge Current	900A (5s)
Internal Resistance	5mΩ
<b>Reserve Capacity</b>	
Reserve @25 AMPS	103 Minutes
Reserve @75 AMPS	26 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)	16.3A	
Charging Temperature Compensation	Cycle use	-4mV/cell/°C
	Float use	-3mV/cell/°C

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



### Constant Current Discharge Rating Amperes @ 77°F (25°C)

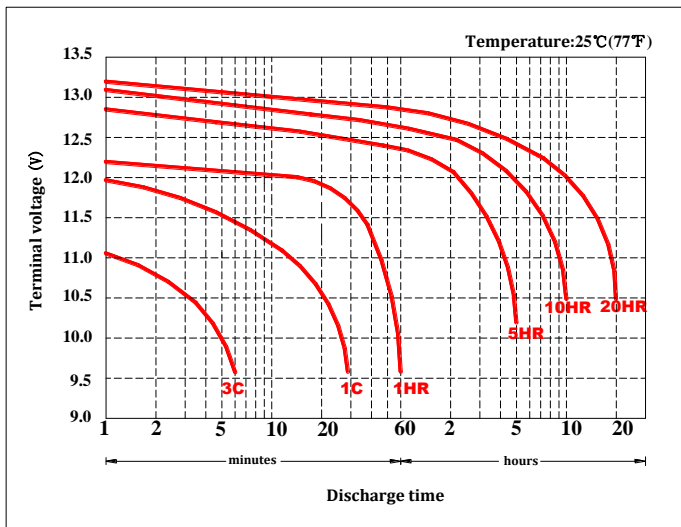
Cut off voltage V/cell	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H
1.75V	98	60	45	36.4	20	15.5	10.3	7.1	5.85	4.98	3.25

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

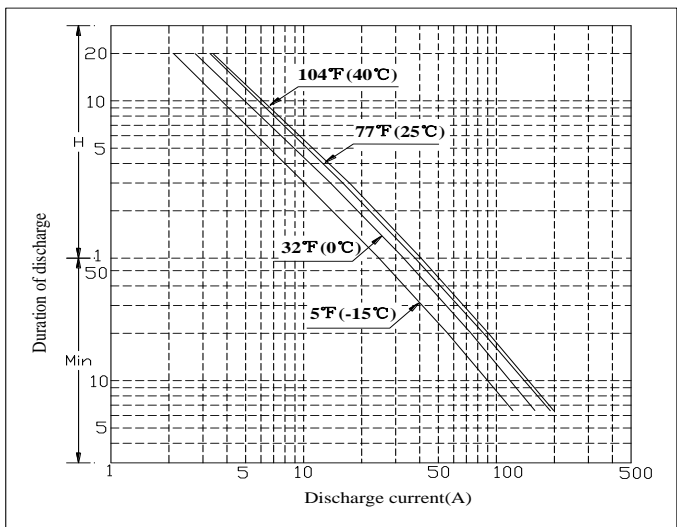


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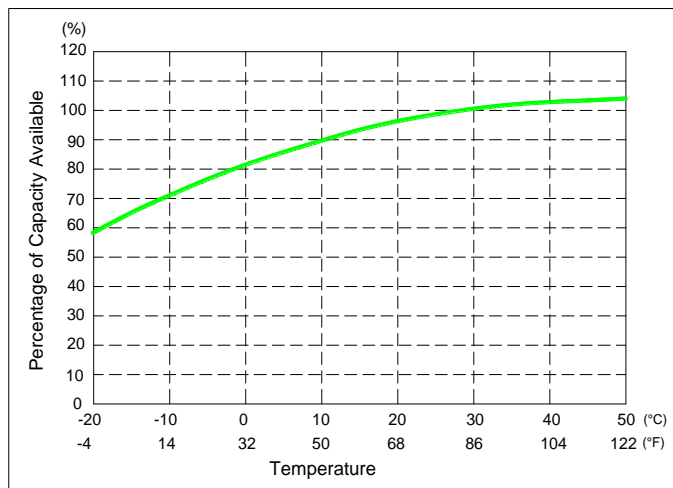
## Terminal Voltage(V) and Discharge Time



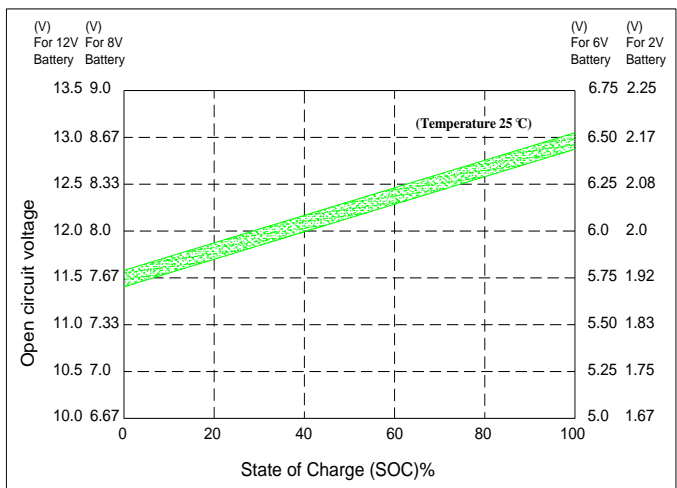
## Duration of discharge vs. Discharge current



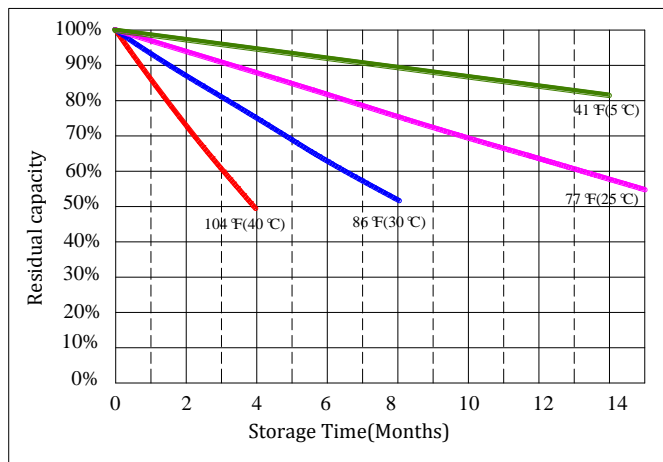
## Percent Capacity vs. Temperature



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



## Capacity Retention Characteristic



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

