DC35-12A DATA SHEET

DC35-12A

35AH@20HR
12-Volt

DEEP CYCLE

Maintenance-Free
Sealed AGM Battery

Nominal Specifications

Battery Model	DC35-12A	Rated Capacity	35AH/20HR

Mechanical Specifications

Group Size	U1	
Overall Height (H)	167±2mm	6.57″
Container Height (h)	155±2mm	6.10″
Length	196±2mm	7.72″
Width	131±2mm	5.16″
Weight	Approx.11.2kg	24.69lbs.
Terminal Type	M6- Button Terminal	
Terminal Torque	5.6-7.9 N.m	
Container Material	ABS Standard ˜UL 94-HB ˜	

Electrical Specifications

C100	39AH
C20	35AH
C10	32AH
C5	29.0AH
CCA	190A
CA or MCA	230A
HPCA	270A
Max. Discharge Current	450A (5s)
Internal Resistance	5.5mΩ

Reserve Capacity

Reserve @25 AMPS	52 Minutes
Reserve @75 AMPS	/

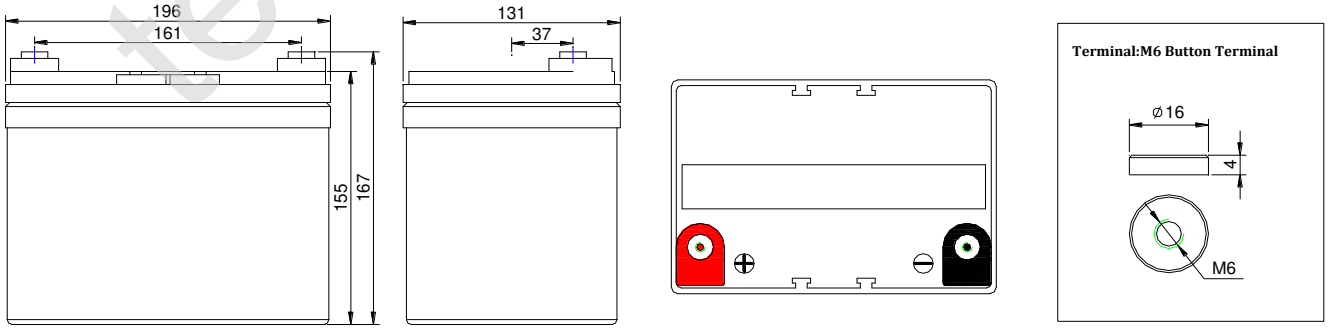
Temperature Range Specifications

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.

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)	8.8A	
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	48	35	26.3	20.6	10.7	7.9	5.6	3.9	3.2	2.7	1.75

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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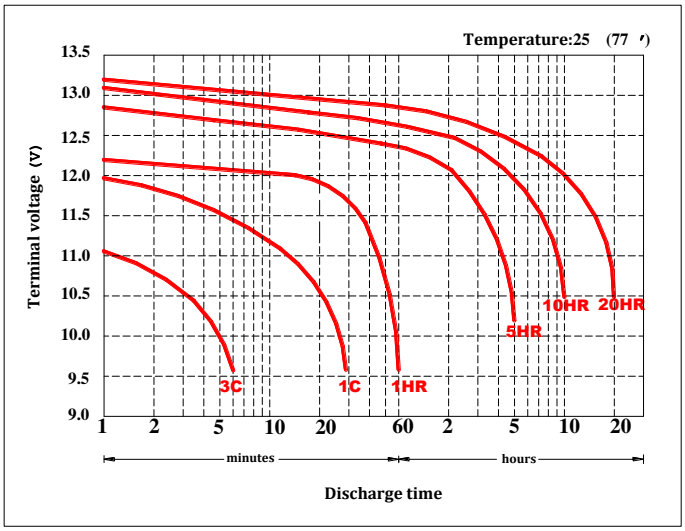
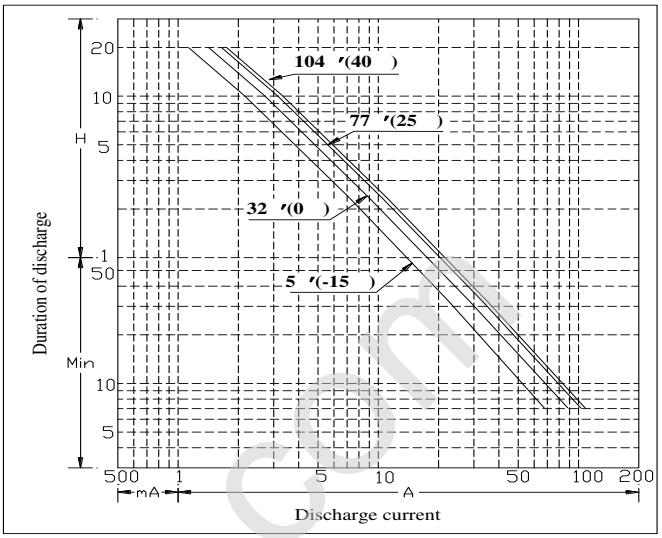
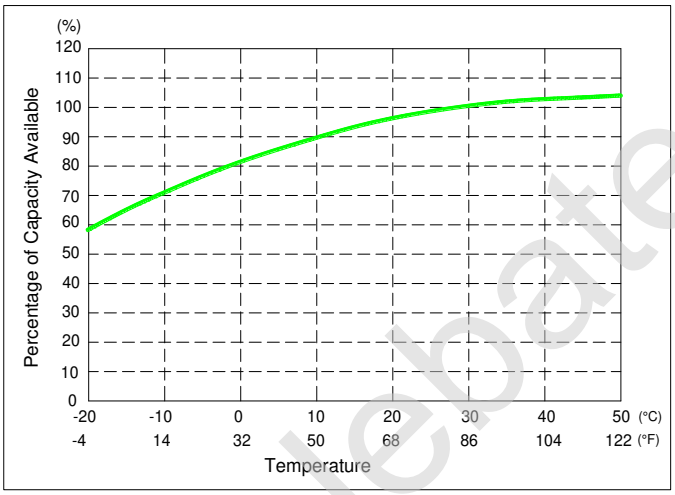
Terminal Voltage(V) and Discharge Time



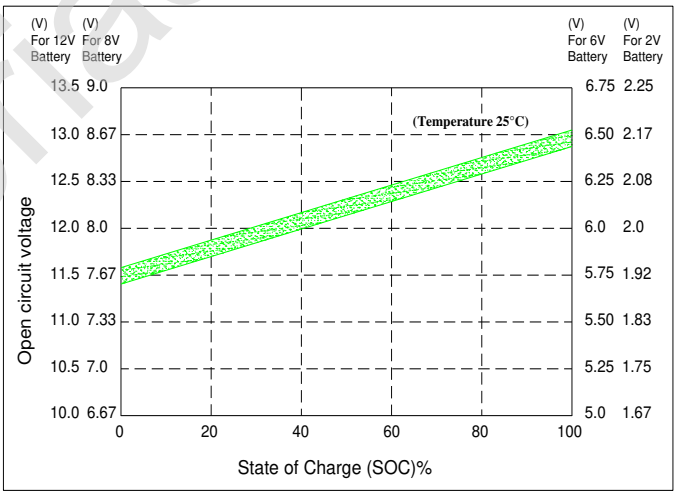
Duration of discharge vs. Discharge current



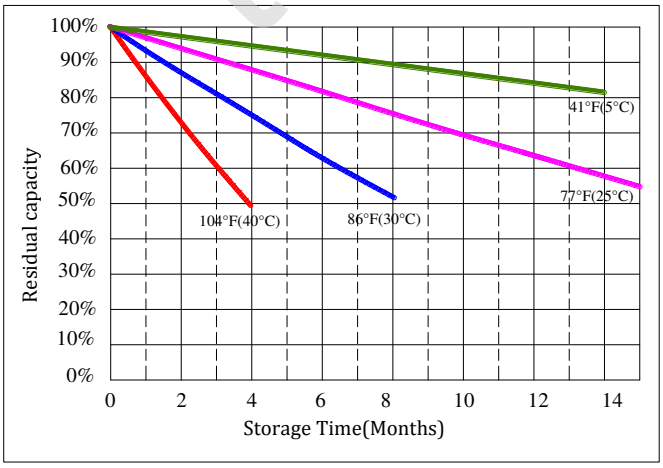
Percent Capacity vs. Temperature



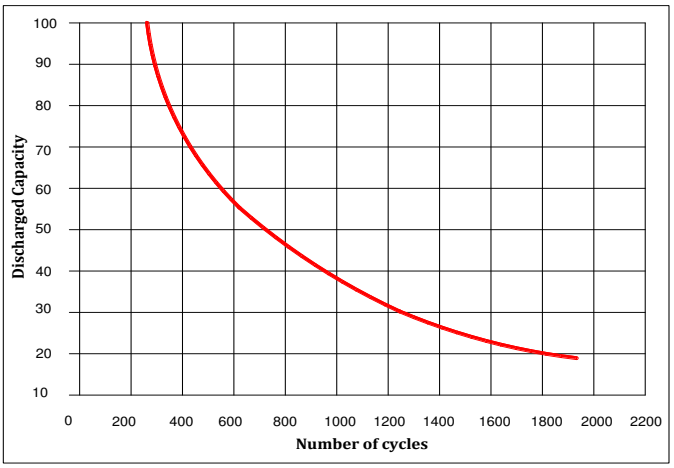
State of Charge(SOC) vs Open Circuit Voltage(OCV)



Capacity Retention Characteristic



Cycle Life vs. Depth of Discharge(DOD)



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