DC105-12 DATA SHEET

DC105-12

105AH@20HR
12-Volt

DEEP CYCLE

Maintenance-Free
Sealed AGM Battery

Nominal Specifications

Battery Model	DC105-12	Rated Capacity	105AH/20HR

Mechanical Specifications

Group Size	27	
Overall Height (H)	215±2mm	8.46"
Container Height (h)	211±2mm	8.31"
Length	307±2mm	12.09"
Width	169±2mm	6.65"
Weight	Approx.30.6kg	67.46bs.
Terminal Type	M8- Button Terminal	
Terminal Torque	9.6-10.7 N.m	
Container Material	ABS：Standard（UL 94-HB）	

Electrical Specifications

C100	116AH
C20	105AH
C10	90AH
C5	86AH
CCA	560A
CA or MCA	660A
HPCA	780A
Max. Discharge Current	1000A (5s)
Internal Resistance	3.8mΩ

Reserve Capacity

Reserve @25 AMPS	170 Minutes
Reserve @75 AMPS	40 Minutes

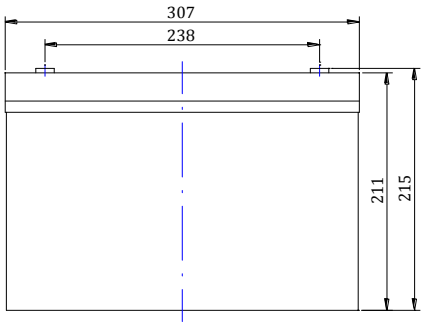
Temperature Range Specifications

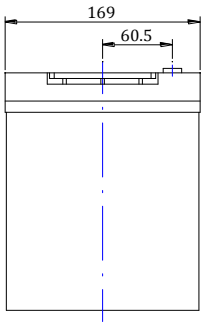
Operating Temperature Range	Discharge : -15℃ ~+ 50℃ (5℉~122℉)
	Charge: -15℃ ~ +40℃ (5℉~104℉)
	Storage: -15℃ ~ +40℃ (5℉~104℉)
Recommended Operating Temperature Range	+74℉(23℃) to +80℉(27℃)
Self-Discharge	Less than 10% after 90 days, can be stored up to 6 months at 25℃ (77℉);Fully recharging is required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

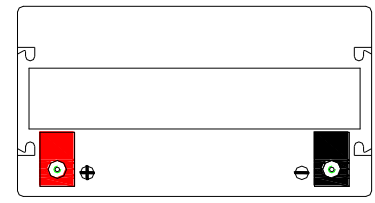
Charge Voltages

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)	25A	
Charging Temperature Compensation	Cycle use	-4mV/cell/℃
	Float use	-3mV/cell/℃

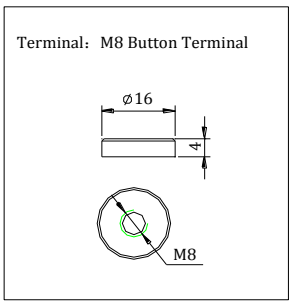
BATTERY & TERMINAL DIMENSIONS (All units shown in mm)







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	145	93	69	56.8	30.1	22.6	15.9	10.9	9.00	7.67	5.25

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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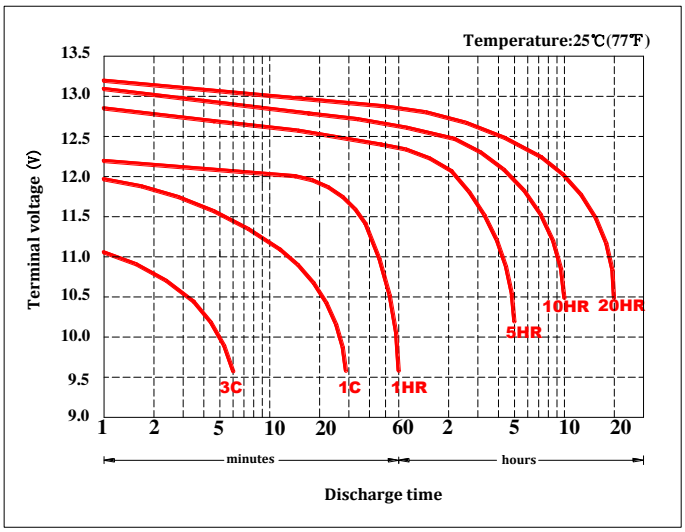
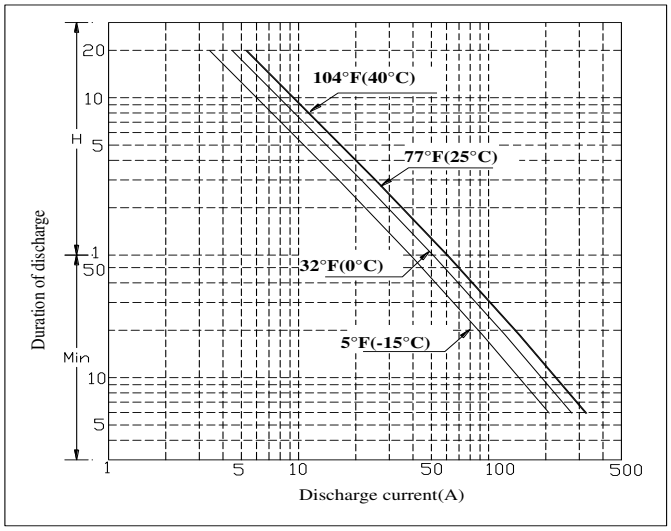
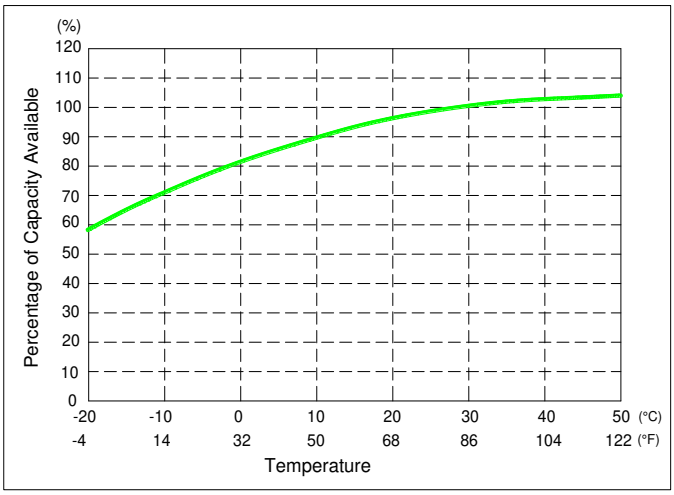
Terminal Voltage(V) and Discharge Time



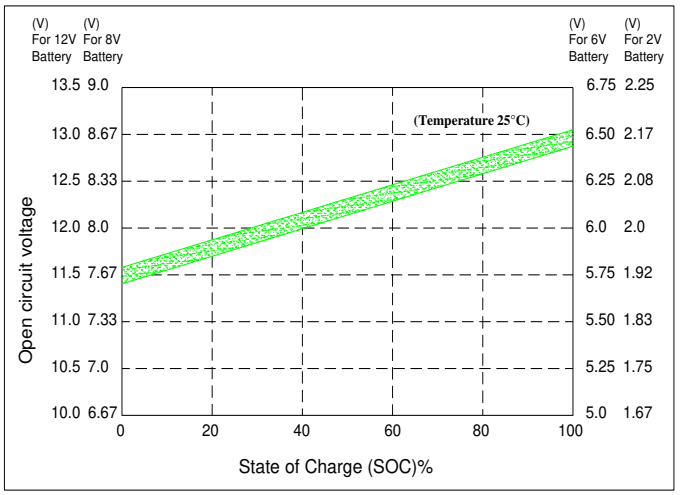
Duration of discharge vs. Discharge current



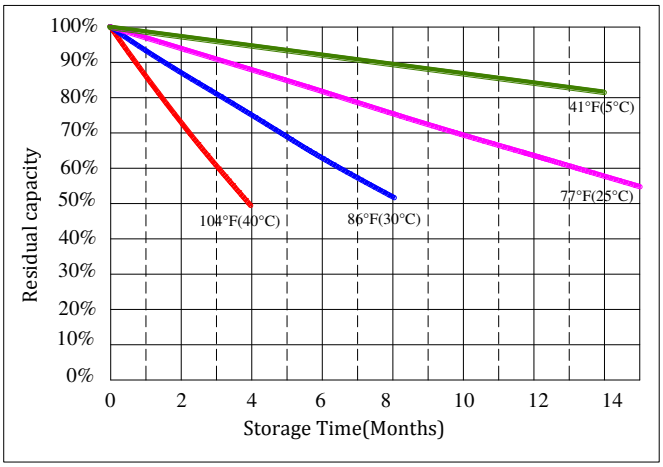
Percent Capacity vs. Temperature



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



Capacity Retention Characteristic



Cycle Life vs. Depth of Discharge(DOD)