

# DC400-6 DATA SHEET



## DC400-6

400AH@20HR

6-Volt

DEEP CYCLE

Maintenance-Free  
Sealed AGM Battery

### Nominal Specifications

Battery Model	DC400-6	Rated Capacity	400AH/20HR
---------------	---------	----------------	------------

### Mechanical Specifications

Group Size	L16	
Overall Height (H)	424±2mm	16.69"
Container Height (h)	404±2mm	15.91"
Length	295±2mm	11.61"
Width	179±2mm	7.05"
Weight	Approx.56 kg	123.46lbs.
Terminal Type	DT-Marine Terminal	
Terminal Torque	AP: 5.6-7.9 N.m M8 Stud: 6.6-8.5N.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.

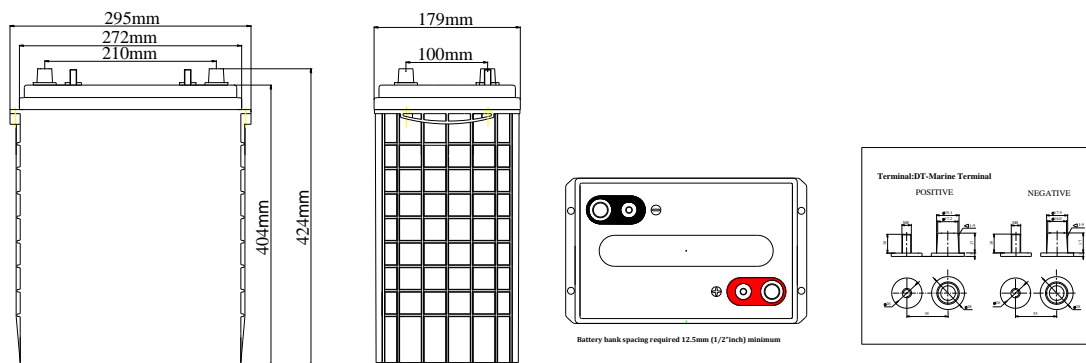
### Electrical Specifications

C100	460AH
C20	400AH
C10	374AH
C5	340AH
CCA	/
CA or MCA	/
HPCA	/
Max. Discharge Current	4000A (5s)
Internal Resistance	1.5mΩ
<b>Reserve Capacity</b>	
Reserve @25 AMPS	885Minutes
Reserve @75 AMPS	229Minutes

### Charge Voltages

Float Charging Voltage	6.75 to 6.90 VDC/unit@ (25°C)	
Equalization and Cycle Service Charging Voltage	7.15 to 7.25 VDC/unit @ (25°C)	
Maximum Charge Current(A)	100A	
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)

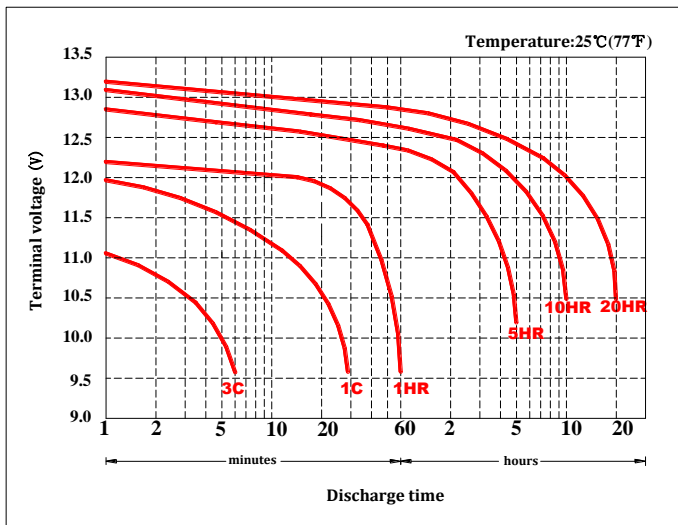
Cut off voltage V/cell	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H
1.75V	500	386.6	285.0	231.5	123.4	93.9	65.9	45.1	37.4	31.8	20.0

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

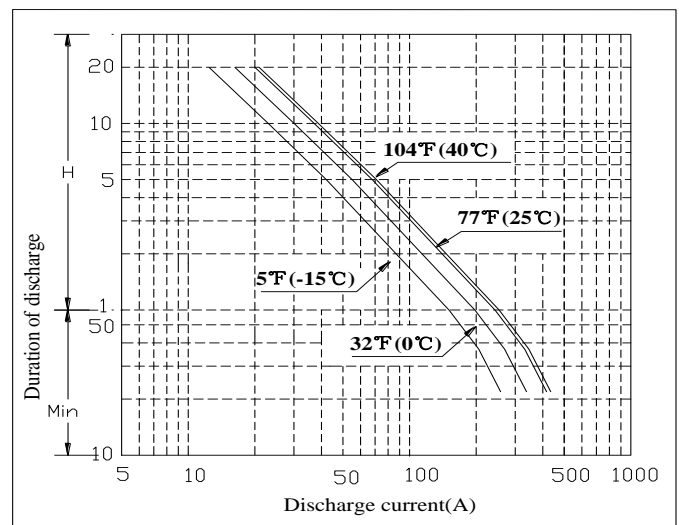


# DC400-6 DATA SHEET

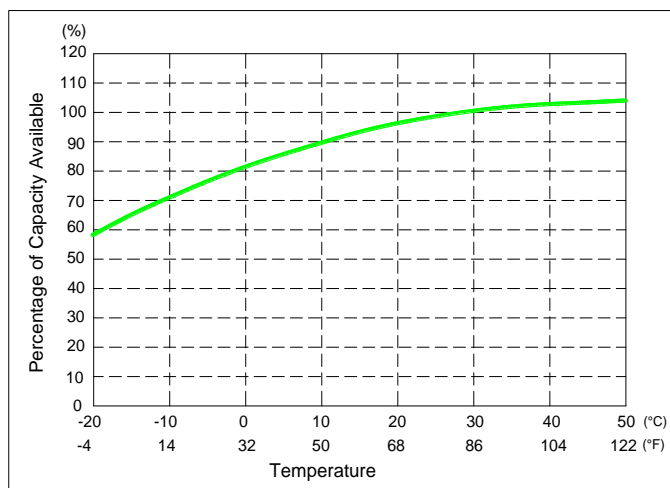
## Terminal Voltage(V) and Discharge Time



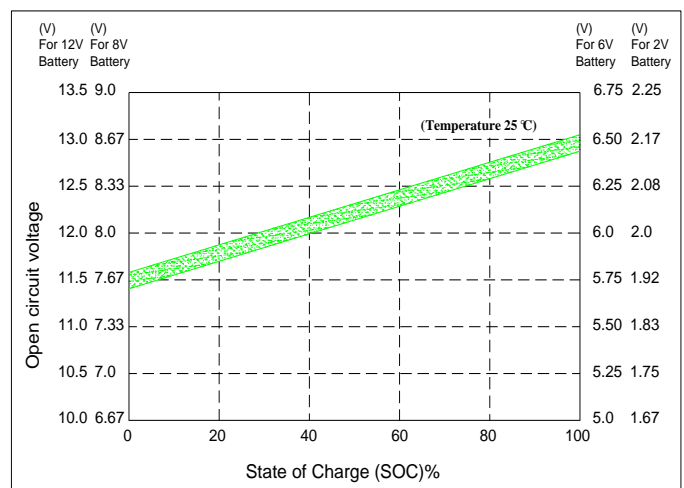
## Duration of discharge vs. Discharge current



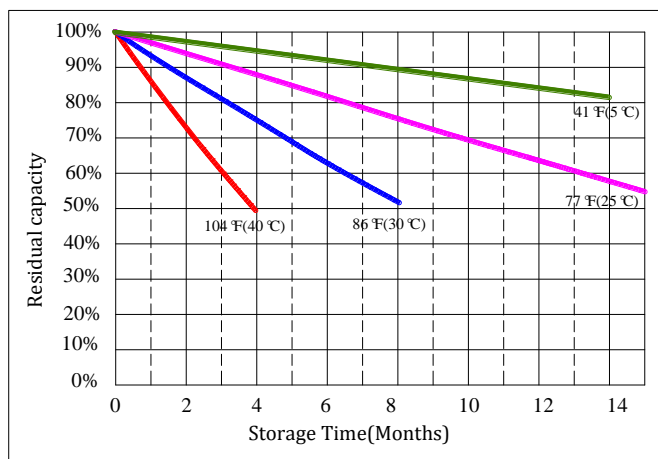
## Percent Capacity vs. Temperature



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



## Capacity Retention Characteristic



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

