

# DC250-6 DATA SHEET



## DC250-6

**250AH@20HR**

**6-Volt**

**DEEP CYCLE**

**Maintenance-Free Sealed AGM Battery**

### Nominal Specifications

Battery Model	DC250-6	Rated Capacity	250AH/20HR
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### Mechanical Specifications

Group Size	GC2	
Overall Height (H)	272±2mm	10.71"
Container Height (h)	266±2mm	10.47"
Length	262±2mm	10.31"
Width	181±2mm	7.13"
Weight	Approx.35.7kg	78.70lbs.
Terminal Type	M8-Button Terminal	
Terminal Torque	9.6-10.7N.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.

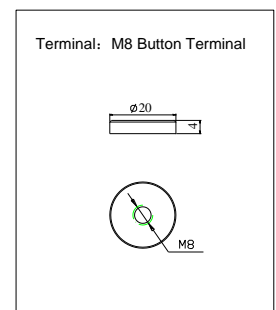
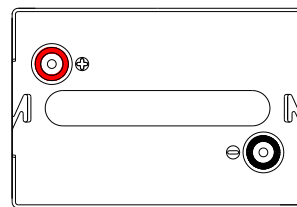
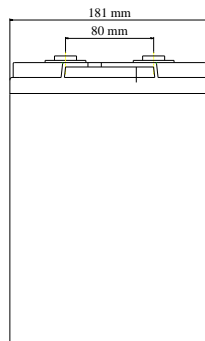
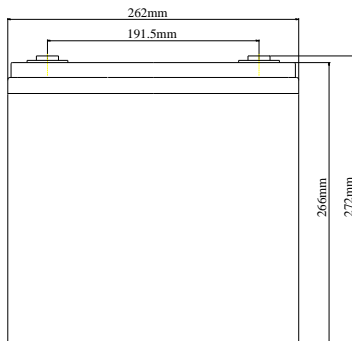
### Electrical Specifications

C100	275AH
C20	250AH
C10	225AH
C5	204AH
CCA	1180A
CA or MCA	1410A
HPCA	1700A
Max. Discharge Current	2500A (5s)
Internal Resistance	1.2mΩ
<b>Reserve Capacity</b>	
Reserve @25 AMPS	531Minutes
Reserve @75 AMPS	135Minutes

### 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)	62.5A	
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)

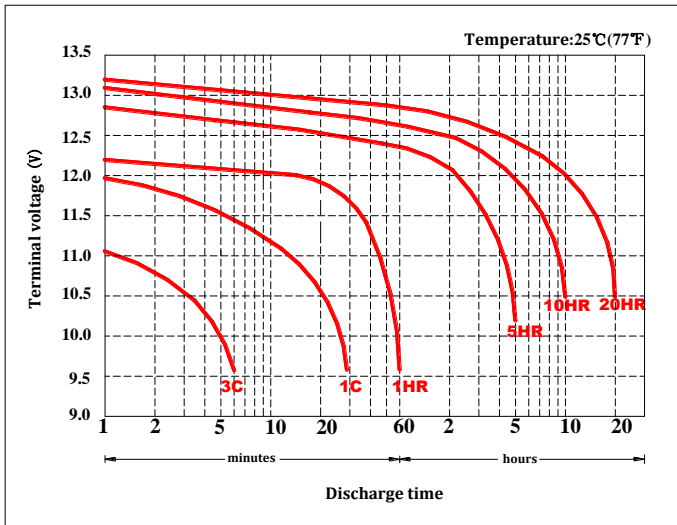
Cut off voltage V/cell	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H
1.75V	361	222.9	164.6	136.1	78.5	56.6	39.7	27.2	22.5	19.2	12.5

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

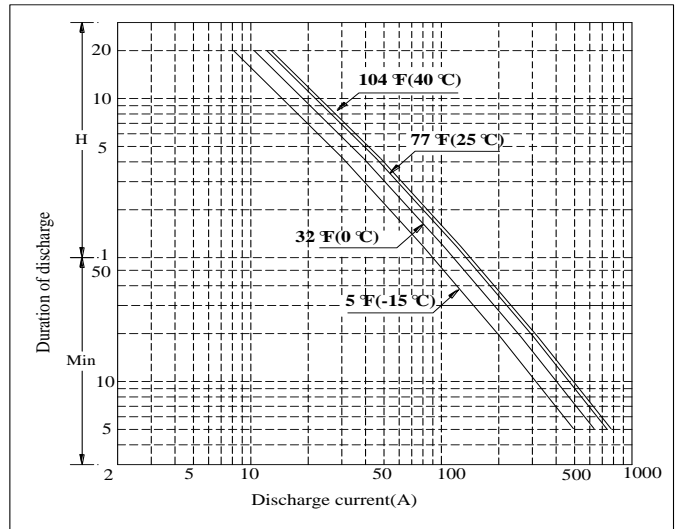


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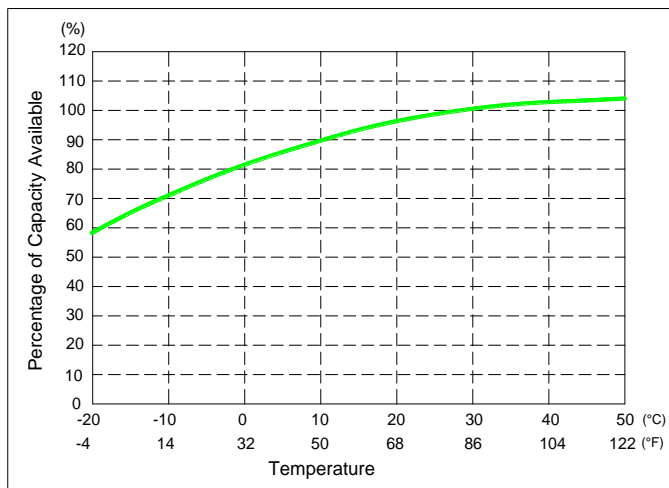
## Terminal Voltage(V) and Discharge Time



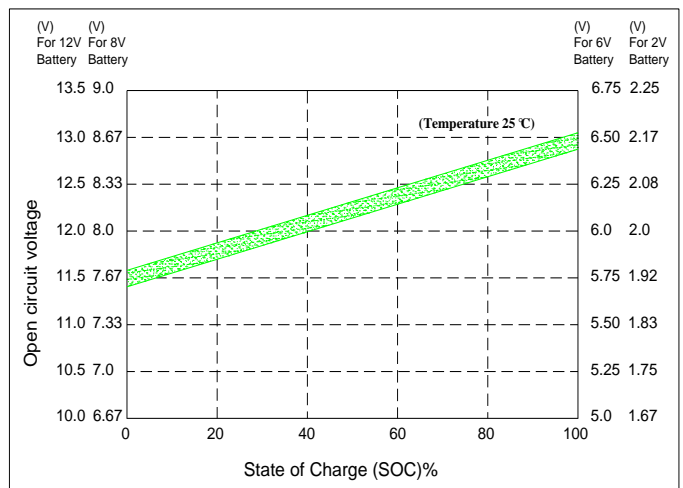
## Duration of discharge vs. Discharge current



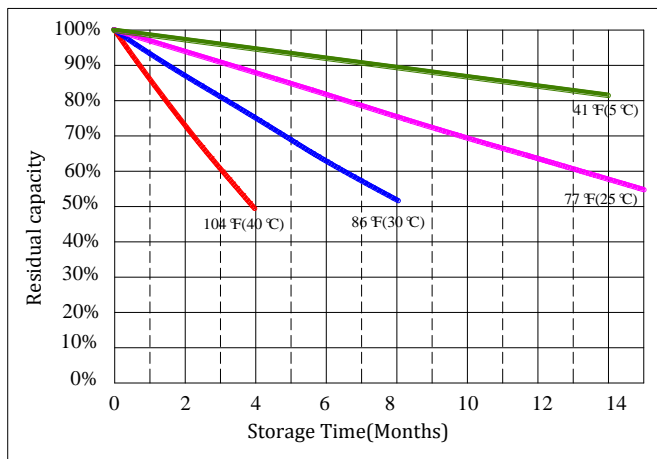
## Percent Capacity vs. Temperature



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



## Capacity Retention Characteristic



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

