

## Product Features



Deep Cycle Long Life Series			400~600 Cycle Times @100%DOD		
<b>↑10% Capacity</b> <small>Improve the content and utilization of active substances Direct Bar-welding</small>	Carbon Fiber		Rare-earth alloy		
	<b>↑15% Discharge Power</b> <small>Positive Carbon Fiber</small>		<b>↓50% Grid Corrosion</b> <small>Rare-earth patent alloy</small>		

## Product Applications



## Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
6-DZM-50	198.5/7.81	166/6.54	174/6.85	174/6.85	13.9/30.65	13	ABS UL94-HB (Optional: FRABS UL94-V0)

## Product Specifications

Nominal Voltage	Rated Capacity <sup>25°C/77°C</sup>	Operating Temp. Range	Capacity Effectd Temp	Capacity vs Storage Time
12V	50Ah 20hr Rate (1.80V/cell) 45Ah 10hr Rate (1.75V/cell) 43Ah 5hr Rate (1.75V/cell) 41Ah 3hr Rate (1.75V/cell)	Discharge:-15°C~50°C (5°F~122°F) Charge:0°C~40°C (32°F~104°F) Storage:-15°C~40°C (5°F~104°F) Optimum:25°C±2°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):85% -15°C (5°F):72%	Three months : 90% Six months : 80% Nine months : 60%

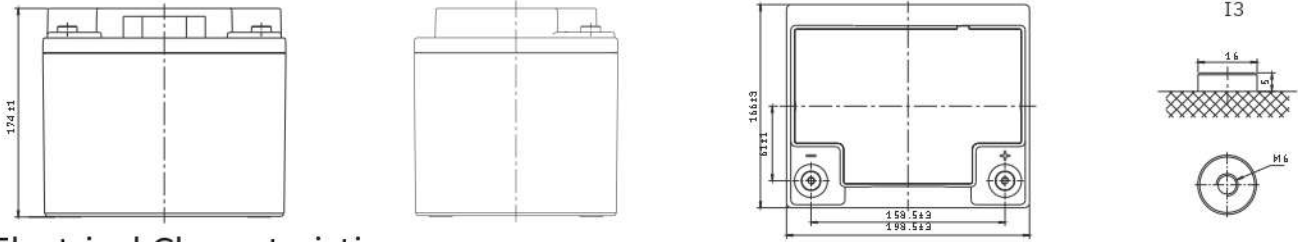
## Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	48.9	34.8	27.9	16.0	12.7	9.89	8.04	6.81	5.21	4.24	2.42
1.80V/cell	50.6	35.9	28.8	16.5	13.2	10.2	8.35	7.06	5.37	4.36	2.50
1.75V/cell	52.0	37.2	29.8	17.6	13.7	10.6	8.56	7.22	5.53	4.46	2.55
1.70V/cell	53.3	38.2	30.9	17.8	14.0	10.9	8.87	7.52	5.66	4.57	2.61
1.67V/cell	54.4	39.4	32.0	18.0	14.1	11.0	9.04	7.58	5.76	4.64	2.63
1.60V/cell	55.8	40.6	32.6	18.6	14.6	11.3	9.25	7.79	5.90	4.78	2.65

## Constant Power Discharge (W/cell)@25°C (77°F)

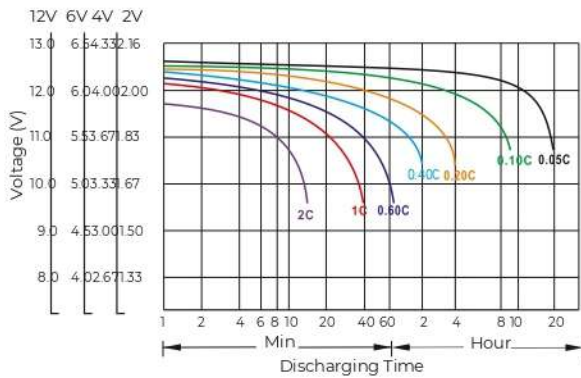
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	95.5	68.5	55.2	31.8	25.5	19.9	16.2	13.7	10.6	8.61	4.92
1.80V/cell	98.5	70.3	56.7	32.8	26.3	20.5	16.8	14.2	10.8	8.82	5.07
1.75V/cell	101	72.7	58.6	34.8	27.2	21.1	17.1	14.5	11.1	8.99	5.15
1.70V/cell	103	74.1	60.3	35.1	27.6	21.6	17.6	15.0	11.3	9.16	5.24
1.67V/cell	104	75.9	62.1	35.3	27.8	21.7	17.9	15.0	11.4	9.23	5.25
1.60V/cell	106	77.6	62.7	36.1	28.5	22.2	18.1	15.3	11.6	9.43	5.28

## Battery Dimensions(mm)

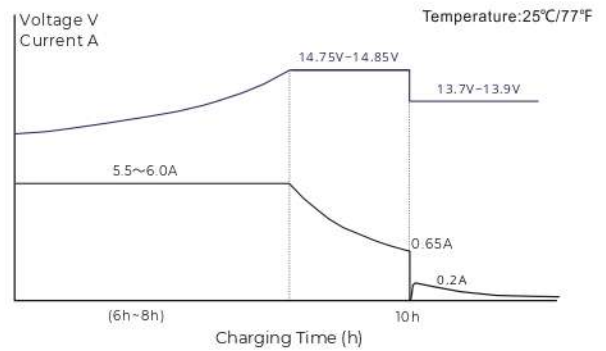


## Electrical Characteristics

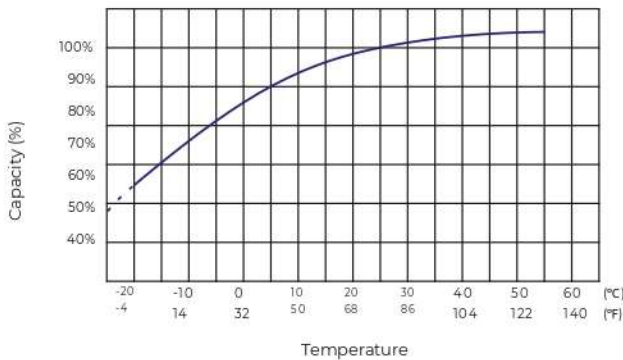
### Discharging Characteristics@25°C(77°F)



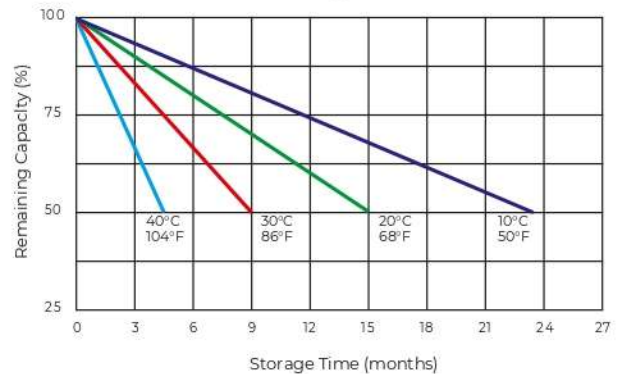
### Charging Characteristics@25°C(77°F)



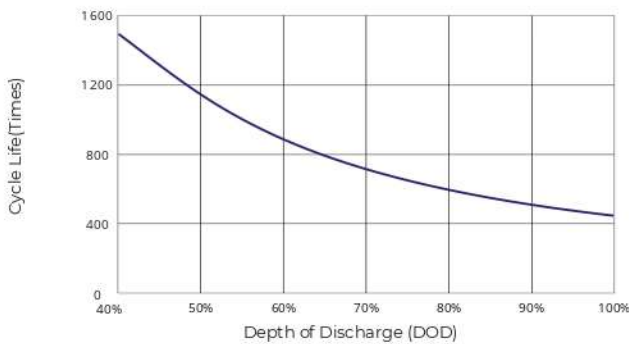
### Capacity vs Temperature



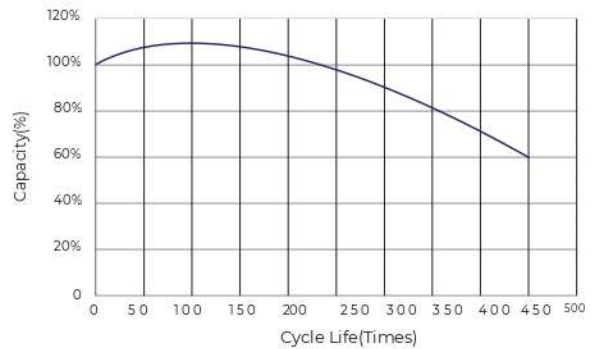
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge@25°C(77°F)



### Cycle Life vs Remaining Capacity@25°C(77°F)



## Usage and Maintenance

Limited Current	Limited Voltage	Floating Voltage
Limited current: $\leq 0.2C3A$	14.75V~14.85V@25 °C (77 °F ) Temp.Coefficient:-24mV/°C	13.7V~13.9V@25 °C (77 °F ) Temp.Coefficient:-18mV/°C