

# DC6-180(6V180Ah)



## Specification

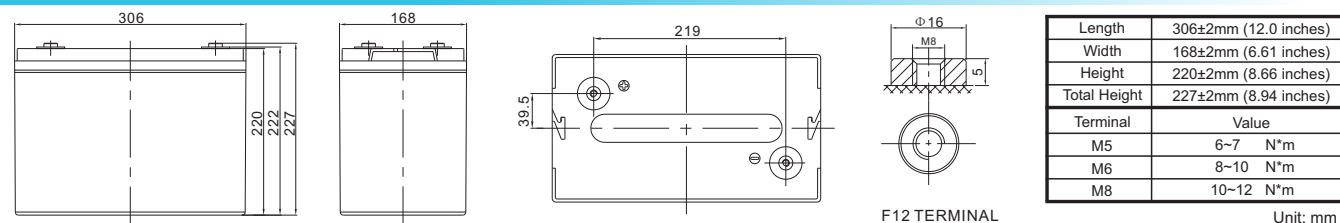


DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offers 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, RV, telecom, broadband and cable TV, UPS systems etc.



<b>Cells Per Unit</b>	3
<b>Voltage Per Unit</b>	6
<b>Capacity</b>	180Ah@20hr-rate to 1.75V per cell @25°C
<b>Weight</b>	Approx. 26.5 Kg (Tolerance ±2%)
<b>Internal Resistance</b>	Approx. 3 mΩ
<b>Terminal</b>	F12(M8)
<b>Max. Discharge Current</b>	1800A (5 sec)
<b>Design Life</b>	12 years (floating charge)
<b>Maximum Charging Current</b>	54.0 A
<b>Reference Capacity</b>	C3 132.3Ah C5 150.5Ah C10 171.0Ah C20 180.0Ah
<b>Float Charging Voltage</b>	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	7.30 V~7.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
<b>Normal Operating Temperature Range</b>	25°C ±5°C
<b>Self Discharge</b>	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.

## Dimensions



### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	365.1	290.8	168.6	104.6	63.3	47.1	37.7	31.7	21.7	18.4	9.35
1.65V	353.0	282.1	165.0	102.6	62.2	46.4	37.1	31.3	21.4	18.2	9.27
1.70V	337.1	270.6	160.4	100.0	60.7	45.5	36.5	30.8	21.1	17.9	9.16
1.75V	315.8	255.3	154.0	96.4	58.8	44.1	35.5	30.1	20.7	17.6	9.00
1.80V	287.4	234.6	145.3	91.5	56.1	42.3	34.2	29.1	20.0	17.1	8.78
1.85V	248.6	206.1	132.9	84.5	52.2	39.7	32.3	27.6	19.1	16.4	8.46

### Constant Power Discharge Characteristics : WPC(25°C)

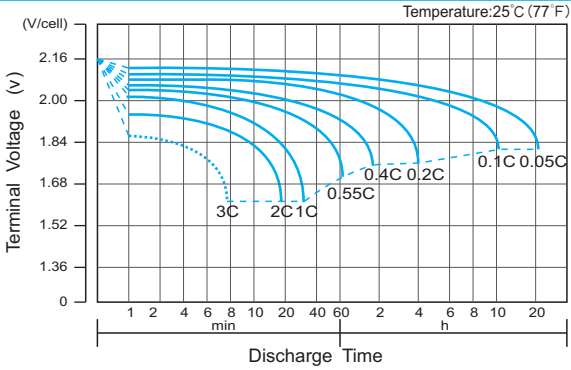
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	653.3	535.1	322.3	205.8	126.2	94.8	76.1	64.4	44.5	38.0	19.4
1.65V	648.3	530.0	320.2	204.0	124.9	93.9	75.5	63.9	44.2	37.7	19.2
1.70V	626.1	513.0	312.9	199.5	122.5	92.2	74.2	63.0	43.6	37.2	19.0
1.75V	597.2	490.9	303.6	193.4	119.1	89.9	72.6	61.7	42.7	36.5	18.7
1.80V	552.9	457.5	289.3	184.4	114.2	86.5	70.1	59.9	41.5	35.6	18.3
1.85V	486.8	407.6	267.3	171.5	106.9	81.5	66.5	57.1	39.8	34.2	17.6

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

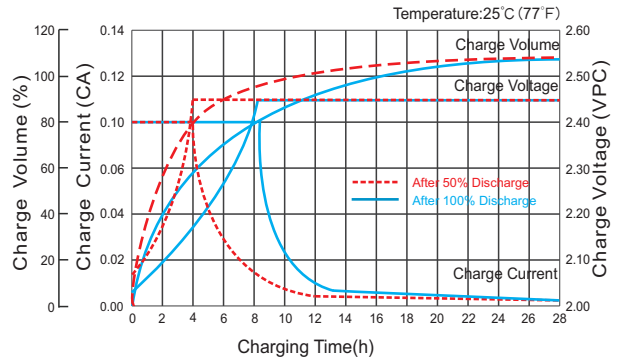
# DC6-180(6V180Ah)



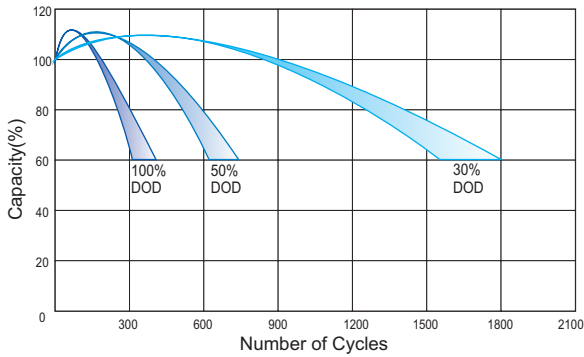
## Discharge Characteristics Curve



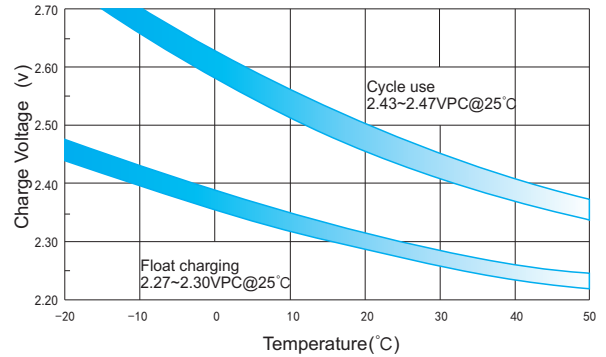
## Charge Characteristic Curve for Cycle Use(IU)



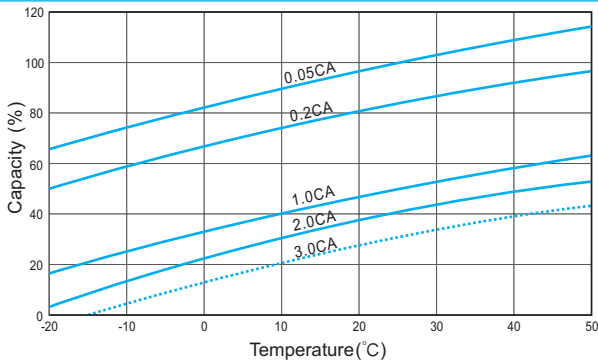
## Cycle Life in Relation to Depth of Discharge



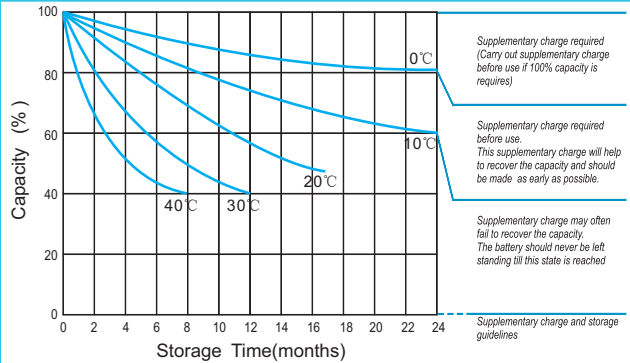
## Relationship Between Charging Voltage and Temperature



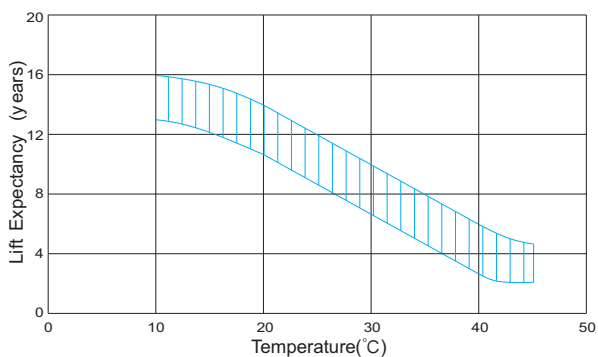
## Temperature Effects on Capacity



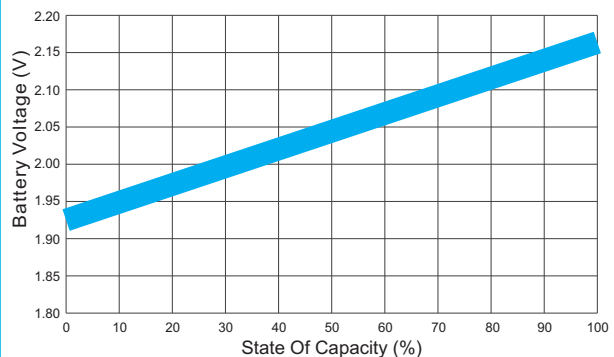
## Storage Characteristics



## Effect of Temperature on Long Term Life



## Relationship of OCV And State of Charge(20°C)



For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:

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