

# DC12-75(12V75Ah)



## Specification

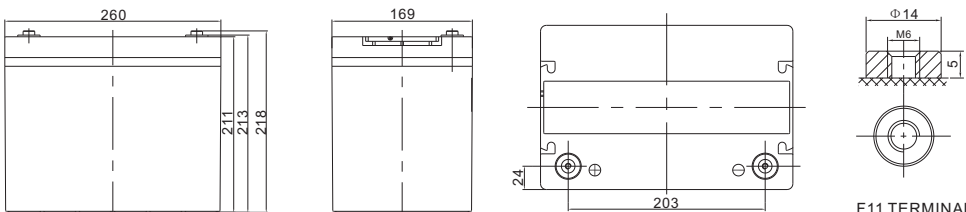
Cells Per Unit	6
Voltage Per Unit	12
Capacity	75Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 23.5 Kg (Tolerance ±2%)
Internal Resistance	Approx. 5.8 mΩ
Terminal	F11(M6)/F15(M6)
Max. Discharge Current	750A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	22.5 A
Reference Capacity	C3 58.5AH C5 66.0AH C10 75.0AH C20 79.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	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.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



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.



## Dimensions



Length	260±1mm (10.2 inches)
Width	169±1mm (6.65 inches)
Height	211±1mm (8.31 inches)
Total Height	218±1mm (8.58 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	193.4	144.4	82.8	47.9	28.0	20.9	16.5	13.9	9.50	8.05	4.10
1.65V	187.0	140.0	81.1	46.9	27.5	20.5	16.3	13.7	9.40	7.97	4.07
1.70V	178.6	134.4	78.8	45.7	26.9	20.1	16.0	13.5	9.25	7.86	4.02
1.75V	167.3	126.7	75.7	44.1	26.0	19.5	15.6	13.2	9.06	7.71	3.95
1.80V	152.2	116.5	71.4	41.9	24.9	18.7	15.0	12.8	8.79	7.50	3.85
1.85V	131.7	102.3	65.3	38.7	23.1	17.6	14.2	12.1	8.39	7.20	3.71

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

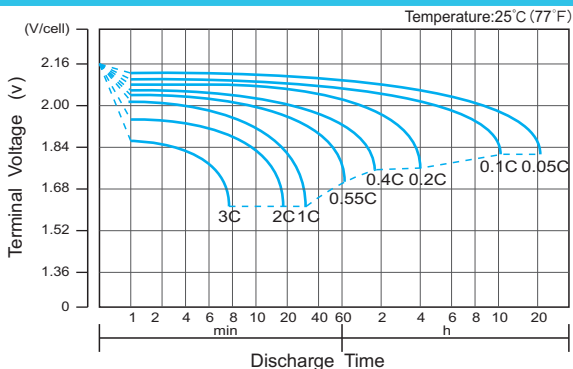
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	329	252	150	89.5	53.1	39.8	31.7	26.8	18.6	15.8	8.08
1.65V	326	250	149	88.7	52.6	39.5	31.4	26.6	18.4	15.7	8.02
1.70V	315	242	146	86.7	51.5	38.8	30.9	26.2	18.2	15.5	7.93
1.75V	301	232	142	84.1	50.1	37.8	30.2	25.7	17.8	15.2	7.80
1.80V	278	216	135	80.2	48.1	36.4	29.2	24.9	17.3	14.8	7.62
1.85V	245	192	125	74.6	45.0	34.3	27.7	23.8	16.6	14.2	7.35

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

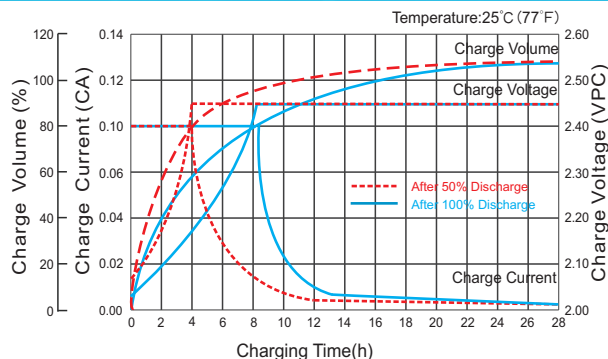
# DC12-75(12V75Ah)



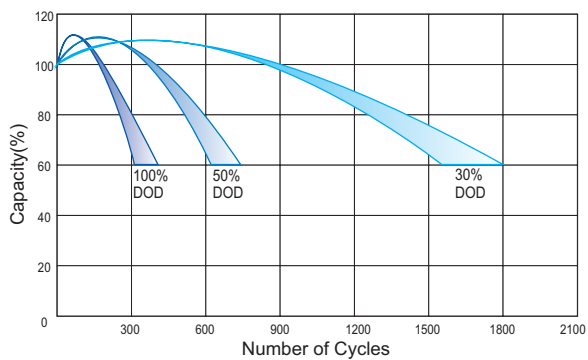
## Discharge Characteristics Curve



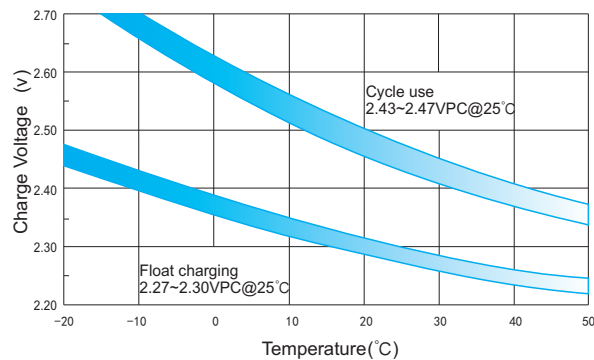
## Charge Characteristic Curve for Cycle Use(IU)



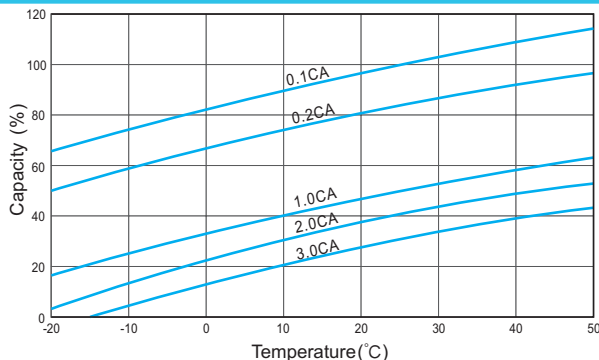
## Cycle Life in Relation to Depth of Discharge



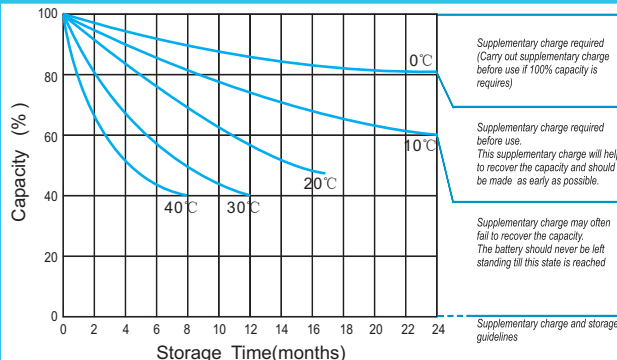
## Relationship Between Charging Voltage and Temperature



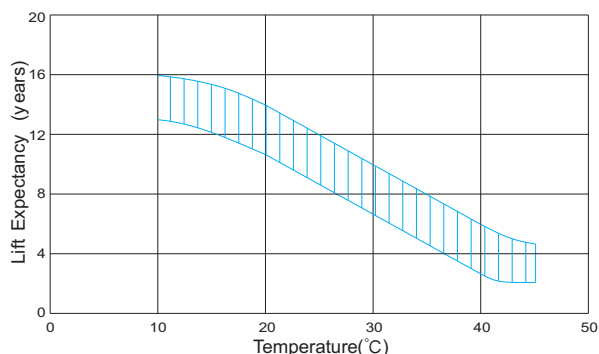
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



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

