

DC12-90(12V90Ah)



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	90Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 28.5 Kg (Tolerance ±2%)
Internal Resistance	Approx. 5.2 mΩ
Terminal	F12(M8)/F15(M6)
Max. Discharge Current	900A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	27.0 A
Reference Capacity	C3 66.9AH C5 75.5AH C10 85.5AH C20 90.0AH
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 offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, V, telecom, broadband and cable TV, UPS systems etc.



ISO 9001



ISO 14001



OHSAS 18001

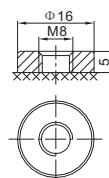
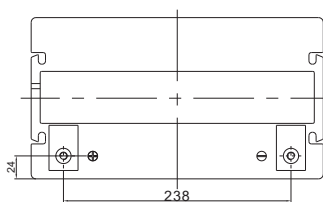
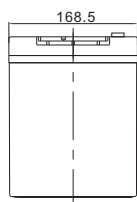
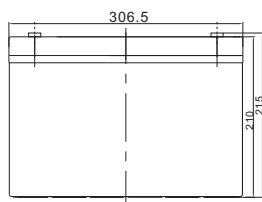


MH 28539



G4M20206-0910-E-16

Dimensions



F12 Terminal

Length	306.5±2mm (12.1 inches)
Width	168.5±2mm (6.63 inches)
Height	210±2mm (8.27 inches)
Total Height	215±2mm (8.46 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	220.5	164.6	94.4	54.5	31.9	23.8	18.8	15.9	10.8	9.18	4.68
1.65V	213.1	159.6	92.4	53.5	31.4	23.4	18.6	15.7	10.7	9.08	4.63
1.70V	203.6	153.2	89.8	52.2	30.7	22.9	18.2	15.4	10.5	8.96	4.58
1.75V	190.7	144.5	86.2	50.3	29.7	22.3	17.8	15.1	10.3	8.79	4.50
1.80V	173.6	132.8	81.4	47.7	28.3	21.3	17.1	14.5	10.0	8.55	4.39
1.85V	150.1	116.6	74.4	44.1	26.4	20.0	16.1	13.8	9.56	8.21	4.23

Constant Power Discharge Characteristics : WPC(25°C)

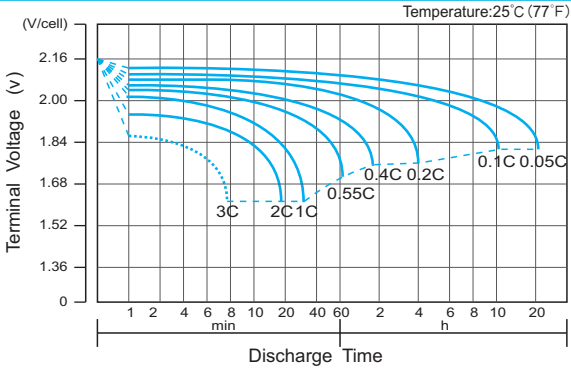
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	375	288	171	102	60.5	45.4	36.2	30.6	21.2	18.0	9.21
1.65V	372	285	170	101	59.9	45.0	35.8	30.4	21.0	17.9	9.14
1.70V	359	276	166	99	58.8	44.2	35.3	29.9	20.7	17.7	9.04
1.75V	343	264	162	96	57.1	43.1	34.5	29.3	20.3	17.3	8.89
1.80V	317	246	154	91.4	54.8	41.5	33.3	28.4	19.7	16.9	8.69
1.85V	279	219	142	85.0	51.3	39.1	31.6	27.1	18.9	16.2	8.38

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

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Discharge Characteristics Curve



Charge Characteristic Curve for Cycle Use(IU)



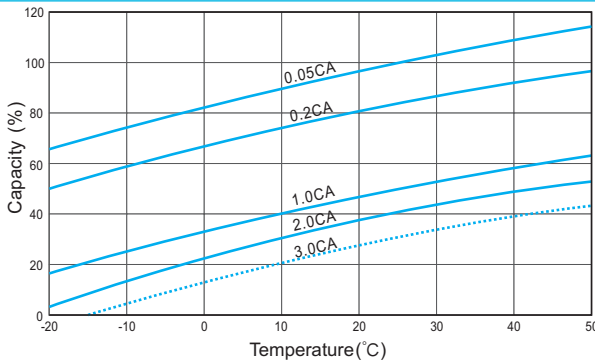
Cycle Life in Relation to Depth of Discharge



Relationship Between Charging Voltage and Temperature



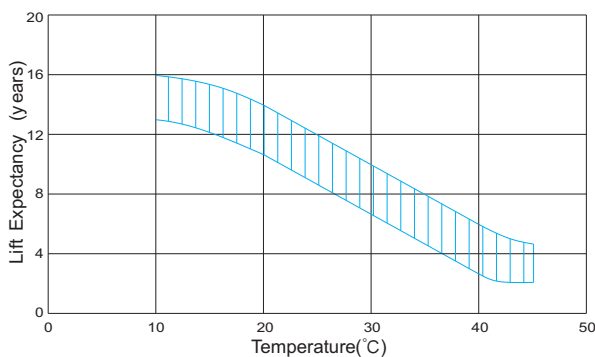
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.