

Specification

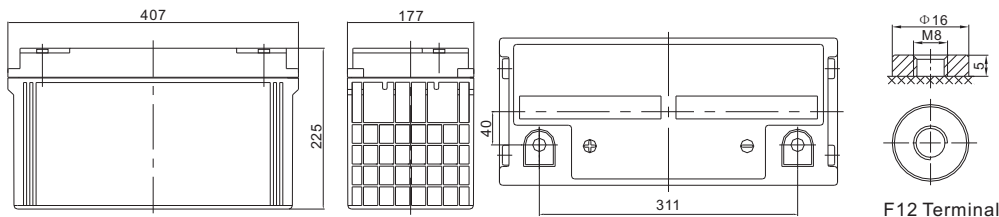
Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 33.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	F5(M8)/F12(M8)
Max. Discharge Current	1200A (5 sec)
Design Life	12 years (floating charge)
Max. Charging Current	36.0 A
Reference Capacity	C3 91.8AH C5 104.5AH C10 120.0AH C20 126.0AH
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	MAGNIZON 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 discharging. 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 and cable TV etc.

ISO 9001	ISO 14001	
CE	RoHS	OHSAS 18001

Dimensions



Length	407±2mm (16.0 inches)
Width	177±2mm (6.97 inches)
Height	225±2mm (8.86 inches)
Total Height	225±2mm (8.86 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

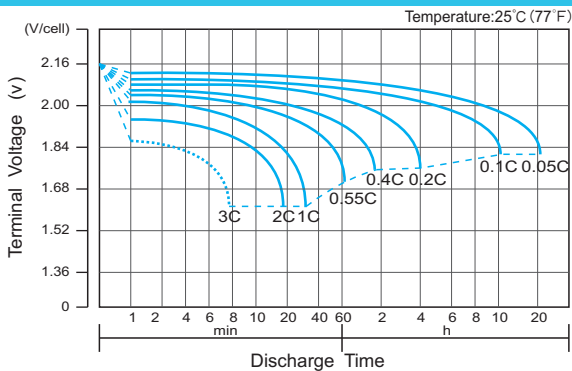
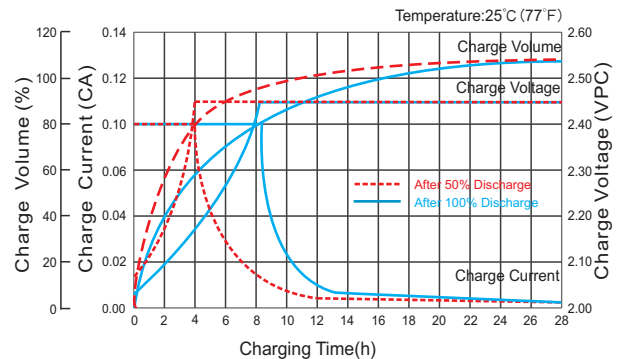
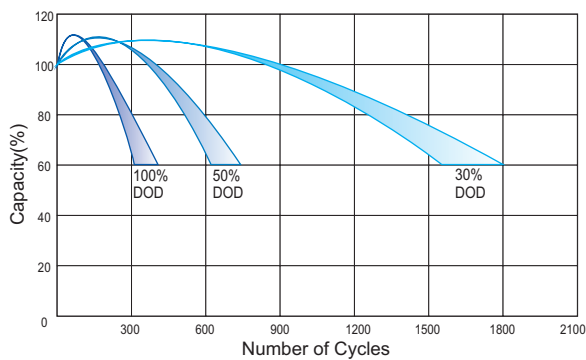
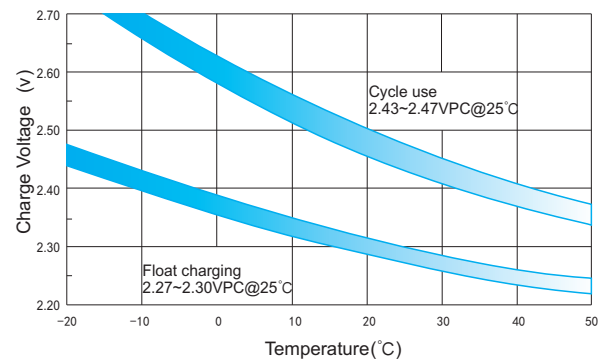
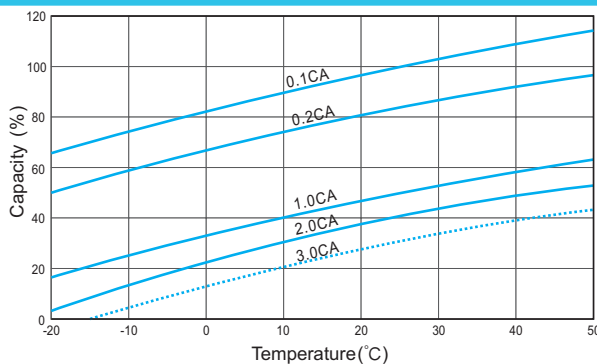
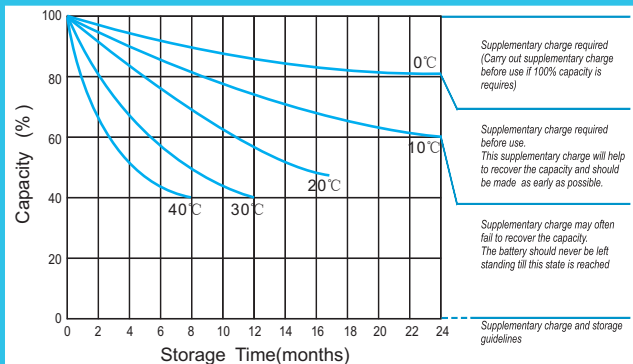
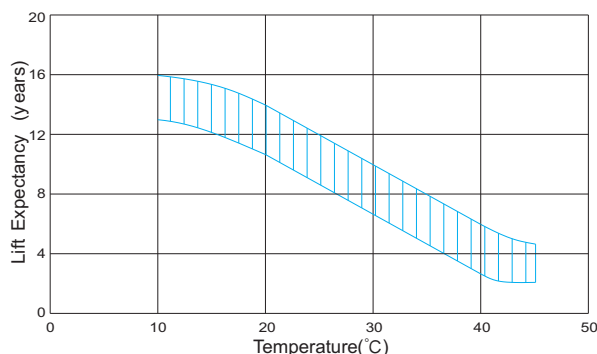
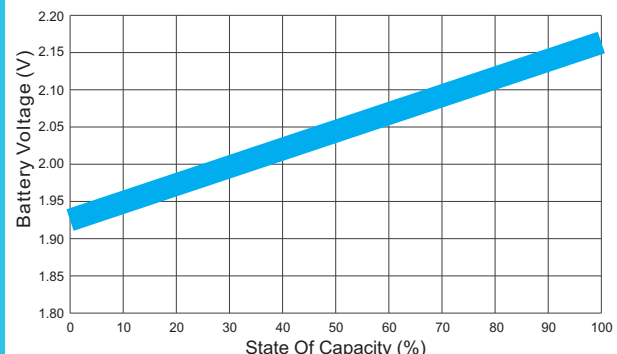
Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	276.8	217.7	130.7	72.9	43.4	33.8	26.5	22.8	15.2	12.6	6.53
1.65V	255.0	203.6	123.8	70.4	41.9	32.8	25.7	22.1	15.0	12.5	6.50
1.70V	236.3	191.5	117.4	68.1	40.8	31.4	24.9	21.5	14.8	12.2	6.41
1.75V	216.8	179.3	112.7	66.0	39.3	30.6	24.3	20.9	14.6	12.1	6.30
1.80V	197.3	164.2	108.6	63.1	37.9	30.0	23.7	20.4	14.3	12.0	6.24
1.85V	154.4	135.9	92.1	56.3	34.7	27.9	22.2	19.0	13.5	11.3	6.18

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	471.3	379.8	237.5	136.8	82.1	64.2	51.1	43.1	29.5	24.7	13.0
1.65V	453.9	369.3	231.9	134.5	79.8	62.6	49.9	42.0	29.3	24.5	12.9
1.70V	423.6	349.5	220.7	130.5	77.9	60.2	48.3	40.9	28.9	24.0	12.8
1.75V	394.2	329.9	213.0	126.9	75.1	58.7	47.1	40.0	28.5	23.8	12.6
1.80V	363.2	305.0	206.1	121.7	73.4	58.4	46.2	39.1	28.0	23.5	12.5
1.85V	288.1	256.2	176.8	109.3	67.6	54.5	43.5	36.5	26.5	22.2	12.3

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
 The battery must be fully charged before the capacity test. The C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

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, MAGNIZON reserves the right to explain and update the latest information

MAGNIZON MC BATTERIES

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specification are subject to modification without notice. Contact Magnizon for the latest information.