



Specification

Cells Per Unit	6	
Voltage Per Unit	12	
Capacity	100Ah@10hr-rate to 1.80V per cell @25°C	
Dimension	Length	328 ± 2mm (12.9 inches)
	Width	172 ± 2mm (6.77 inches)
	Container Height	215 ± 2mm (8.46 inches)
	Total Height	220 ± 2mm (8.66 inches)
Weight	Approx. 30.0 Kg (Tolerance±2%)	
Internal Resistance	Approx. 5 mΩ	
Terminal	F12(M8)/F5 (M8)	
Max. Discharge Current	1000A (5 sec)	
Design Life	12 years (floating charge)	
Maximum Charging Current	30.0 A	
Reference Capacity	C3	78.2AH
	C5	88.0AH
	C10	100.0AH
	C20	105.2AH
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~50°C Charge: 0°C~40°C Storage: -20°C~60°C	
Normal Operating Temperature Range	25°C±5°C	
Self Discharge	MC 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.	

Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS- for Telecom)
- ◆ Solar/Photovoltaic /Wind Energy

ISO 9001	ISO 14001	OHSAS 18001	
CE	RoHS		

Constant Current Discharge (Amperes) at 25 °C (77°F)

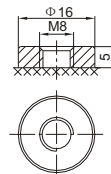
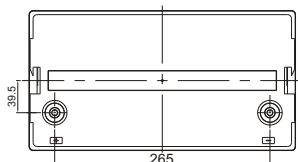
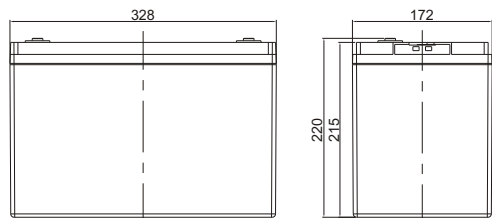
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	\	237.2	182.8	148.1	106.0	77.4	62.4	37.4	27.8	22.0	18.6	16.3	12.7	10.7	5.47
1.65V	\	229.3	177.4	144.3	103.8	75.9	61.2	36.7	27.4	21.7	18.3	16.1	12.5	10.6	5.42
1.70V	\	219.0	170.2	139.2	100.8	73.8	59.7	35.9	26.9	21.3	18.0	15.8	12.3	10.4	5.35
1.75V	\	205.2	160.5	132.5	96.8	71.1	57.5	34.7	26.1	20.8	17.6	15.5	12.1	10.3	5.26
1.80V	\	186.8	147.5	123.3	91.3	67.2	54.6	33.1	25.0	20.0	17.0	15.0	11.7	10.0	5.13
1.85V	\	161.5	129.6	110.5	83.6	61.8	50.4	30.9	23.5	18.9	16.2	14.3	11.2	9.63	4.95

Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	\	403.3	319.6	263.6	192.5	142.6	116.7	70.8	53.2	42.3	35.8	31.6	24.7	21.0	10.8
1.65V	\	400.2	316.6	261.5	191.3	141.5	115.7	70.1	52.7	41.9	35.5	31.3	24.5	20.8	10.7
1.70V	\	386.5	306.4	254.2	186.9	138.4	113.1	68.7	51.7	41.2	35.0	30.9	24.2	20.6	10.6
1.75V	\	368.6	293.3	244.9	181.4	134.2	109.6	66.8	50.5	40.3	34.3	30.3	23.7	20.3	10.4
1.80V	\	341.3	273.3	230.7	172.8	127.9	104.5	64.1	48.6	39.0	33.3	29.4	23.1	19.8	10.2
1.85V	\	300.5	243.5	209.2	159.7	118.5	97.2	60.0	45.8	36.9	31.7	28.1	22.1	19.1	9.80

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

Dimensions

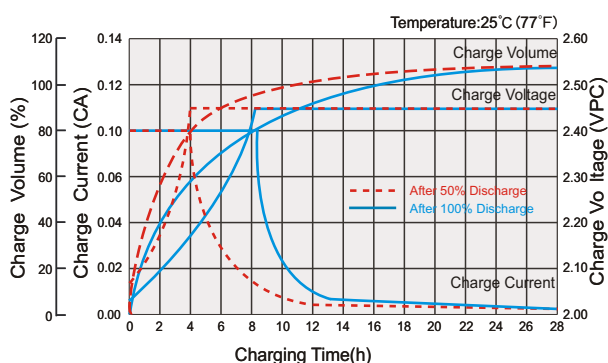


F12 Terminal

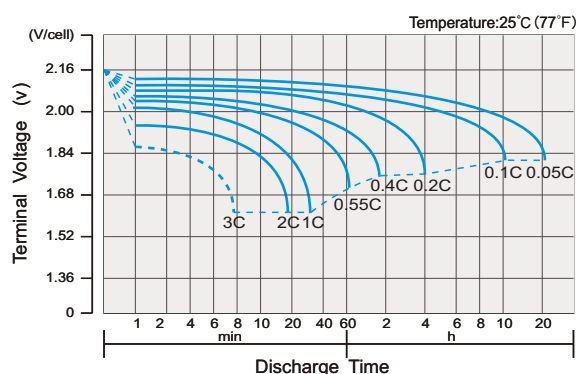
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

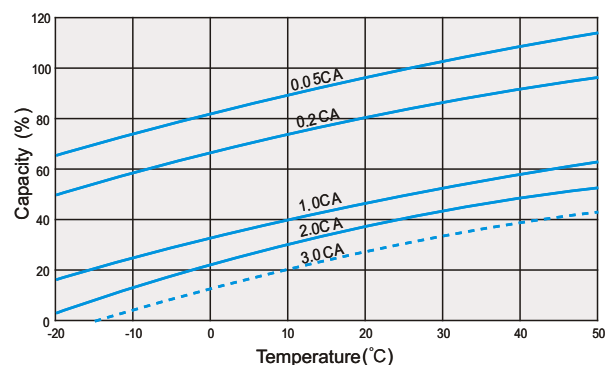
Float Charging Characteristics



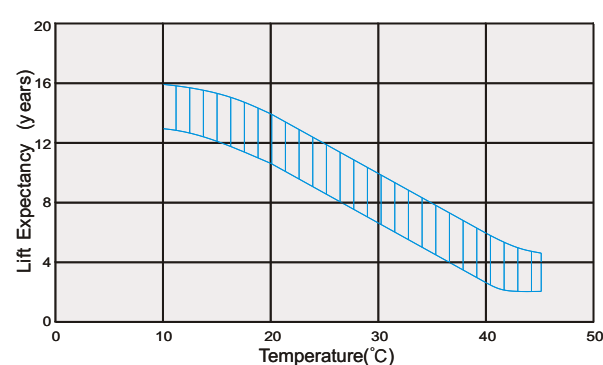
Discharge Characteristics



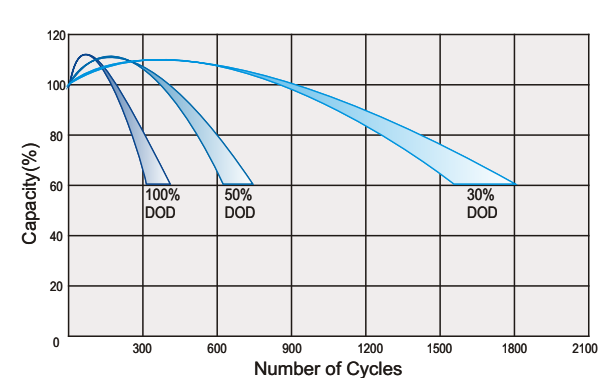
Temperature Effects in Relation to Battery Capacity



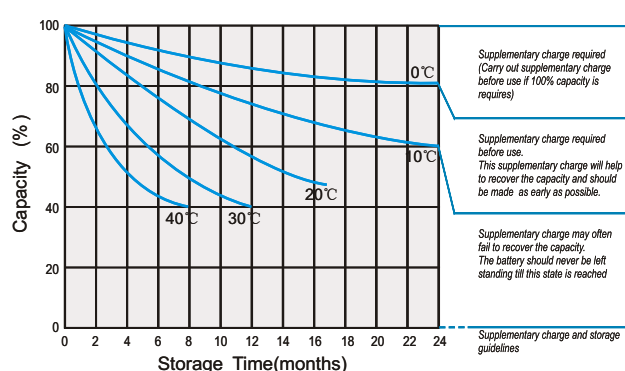
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Magnizon MC BATTERIES

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