ML12-55 (12V55AH C10 @25°C)



Features

§ Maintenance-free operation
§ Compact design
§ ABS case, Flame Retardant V0 is available
§ Stable quality and high reliability
§ 10 years design life (at 25°C)

Application

§ Telecommunication system
§ Alarm and security system
§ Backup power
§ UPS
§ Emergency lighting
§ Auto control system
§ Electronic apparatus and equipment
§ Communication power supply
§ DC power supply

Specification

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15-50°C (5-122°F)
Nominal Capacity	58AH (20hr, 1.80V/cell, 25°C/77°F)		Charge:0-40°C (32-104°F)
	55AH (10hr, 1.80V/cell, 25°C/77°F)		Storage: -15-40°C (5-104°F)
	47AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	33AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 228 ± 2mm		Initial Charging Current Less than 16.5A
	Width 137 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 210 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 214 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Approx Weight	Approx 17Kg		25°C (77°F) 100%
Terminal	T3 or F5		0°C (32°F) 86%
Container Material	ABS	Self Discharge	ML series batteries may be stored for up to 6 months
Max. Discharge Current	600A (5S)		at 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 8.0mΩ		For higher temperatures the time interval will be shorter.

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

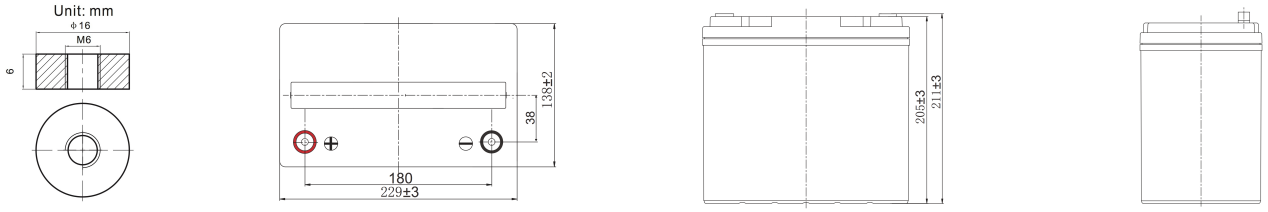
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	132.3	95.7	78.1	48.7	37.6	30.8	18.1	13.6	9.4	5.51	2.90
1.75V/cell	144.5	105.2	84.7	50.7	39.1	31.8	18.6	13.9	9.6	5.61	2.94
1.70V/cell	156.3	112.3	91.5	52.4	40.3	32.7	19.1	14.2	9.8	5.68	2.97
1.65V/cell	168.5	119.8	96.7	55.3	42.0	34.0	19.7	14.6	10.0	5.74	3.01
1.60V/cell	180.1	128.0	101.1	57.8	43.5	35.1	20.2	14.9	10.2	5.80	3.04

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	247.5	175.4	148.1	91.5	71.5	60.0	34.9	26.3	18.5	10.94	5.71
1.75V/cell	263.0	188.0	155.6	95.2	74.5	61.3	35.8	26.9	18.8	11.08	5.80
1.70V/cell	278.2	197.9	163.7	98.4	76.9	62.2	36.7	27.4	19.0	11.17	5.85
1.65V/cell	299.9	207.1	169.7	103.8	79.1	64.3	37.4	27.9	19.4	11.24	5.91
1.60V/cell	317.1	215.5	177.0	107.0	81.2	66.4	38.2	28.4	19.7	11.32	5.97

Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimension

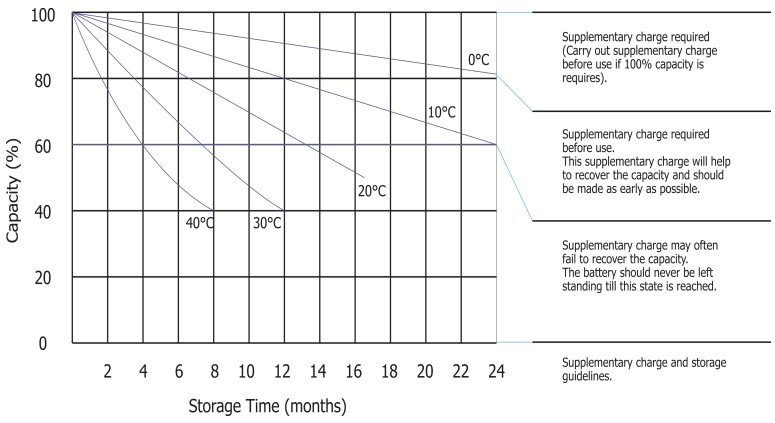


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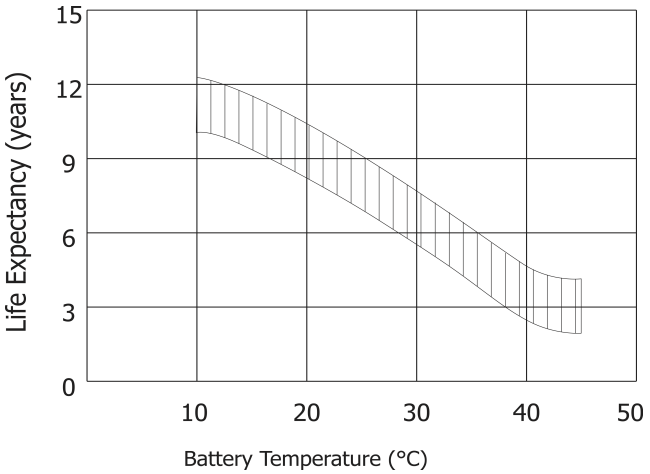
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Storage Characteristics

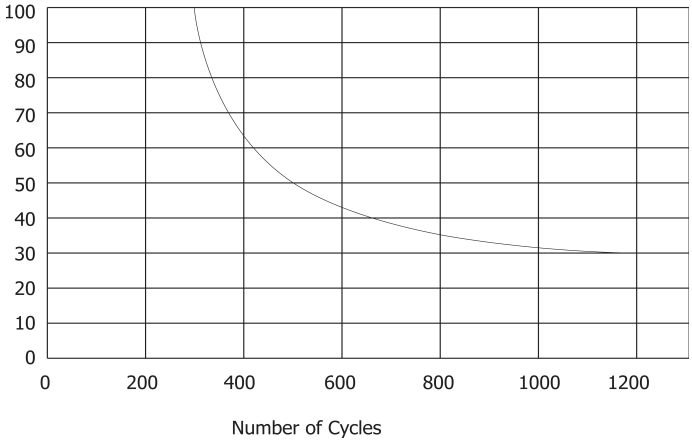


Effect Of Temperature On Float Life

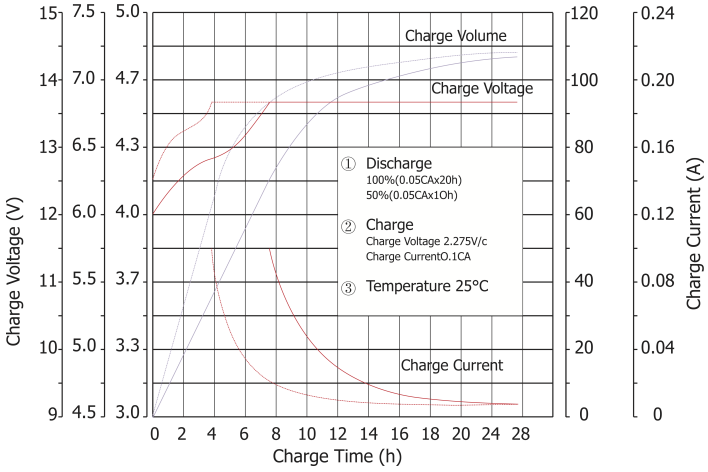


Cycle Life With Depth Of Discharge (D.O.D.)

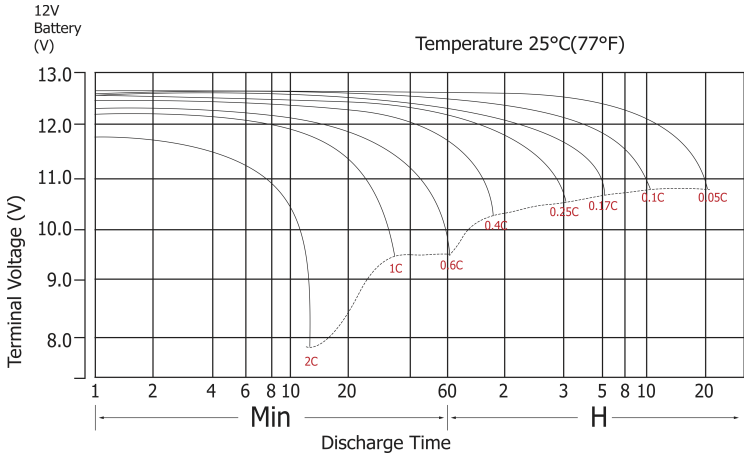
Testing condition
Discharging: current 0.17C (FV 1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume: 125% of discharged capacity



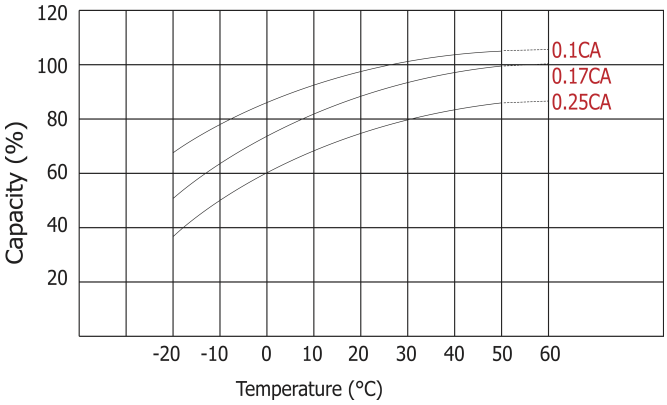
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

MH20942

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