

RL2-800 (2V800Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	800Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 38.5 Kg (Tolerance ± 5.0%)
Internal Resistance	≤ 0.50 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	3000A (5 sec)
Short Circuit Current	6370A
Design Life	20 years
Max. Charging Current	160 A
Reference Capacity	C ₁ 440.0Ah C ₃ 600.0Ah C ₅ 680.0Ah C ₁₀ 800.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

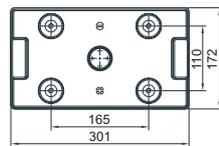
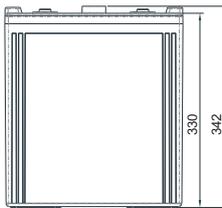
RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



ISO 9001 ISO 14001 ISO 45001



Dimensions



F10 TERMINAL

Length	301±2mm (11.9 inches)
Width	172±2mm (6.77 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	758.3	488.8	301.0	225.6	181.6	150.9	101.4	84.4
1.65V	727.9	472.0	291.4	218.7	176.7	147.0	100.3	83.4
1.70V	695.8	456.7	281.8	212.7	171.9	143.2	98.7	82.1
1.75V	665.0	440.0	272.0	206.4	167.5	139.6	97.4	81.0
1.80V	635.6	423.2	262.2	200.0	162.7	136.0	95.7	80.0
1.85V	547.5	379.5	240.3	184.9	151.2	126.8	89.9	75.3

Constant Power Discharge Characteristics : W/Cell (25°C)

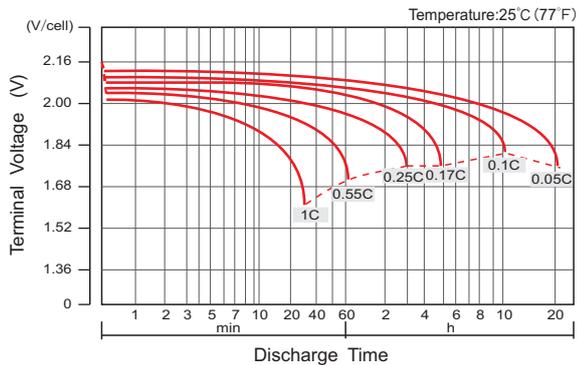
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1377.2	918.5	570.5	431.0	348.7	290.9	198.1	165.9
1.65V	1336.1	892.1	555.0	419.4	340.5	284.4	196.3	164.1
1.70V	1289.9	868.5	539.6	409.8	332.5	278.0	193.7	161.8
1.75V	1245.5	841.8	523.2	399.3	325.2	271.9	191.4	159.9
1.80V	1202.5	814.3	507.0	388.5	317.0	265.9	188.6	158.1
1.85V	1046.0	734.9	467.1	360.7	295.8	248.8	177.4	149.0

(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.

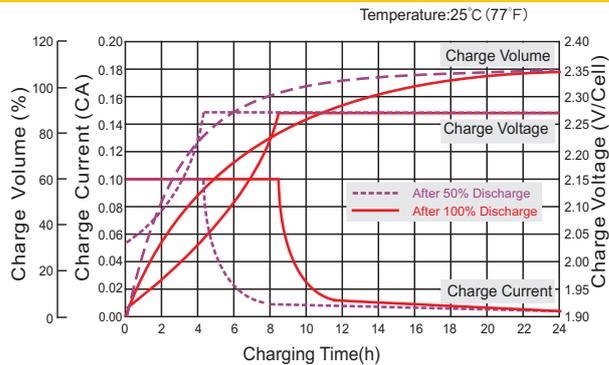
RL2-800(2V800Ah)



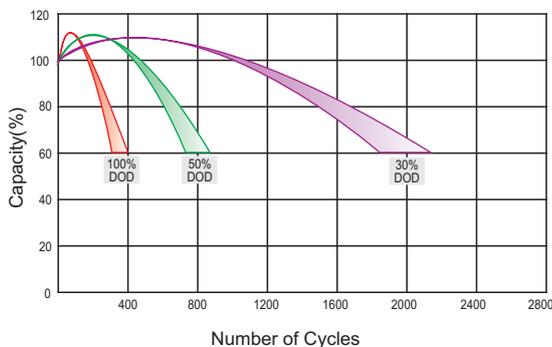
Discharge Characteristics Curve



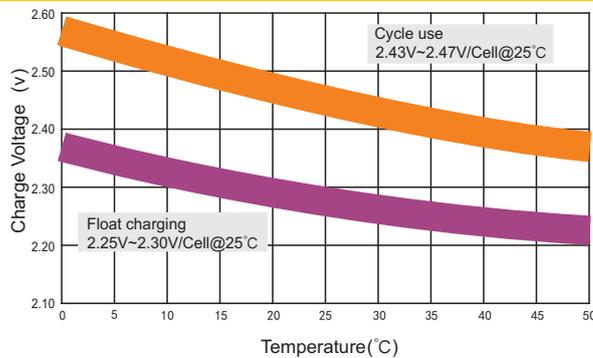
Charge Characteristic Curve For Standby Use(IU)



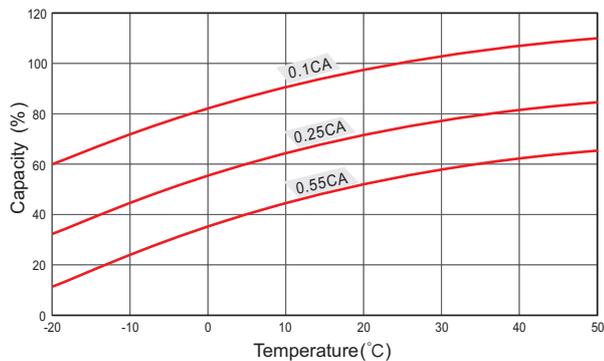
Cycle Life In Relation To Depth Of Discharge



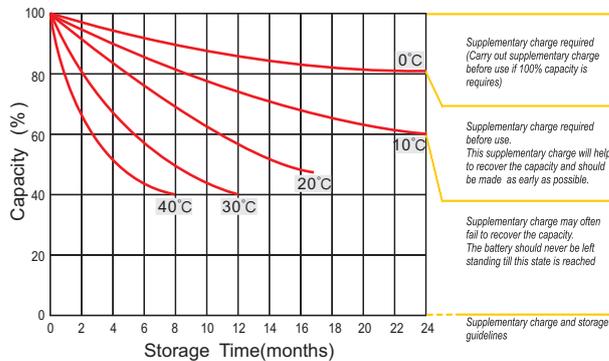
Relationship Between Charging Voltage And Temperature



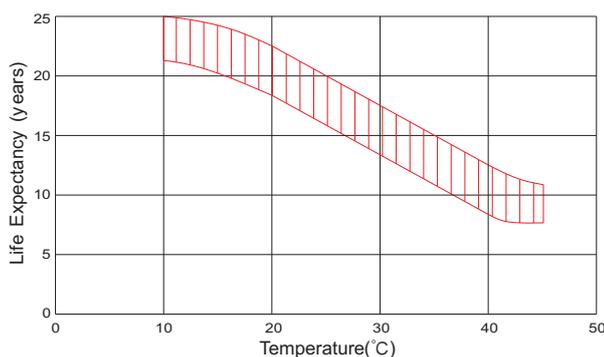
Temperature Effects On Capacity



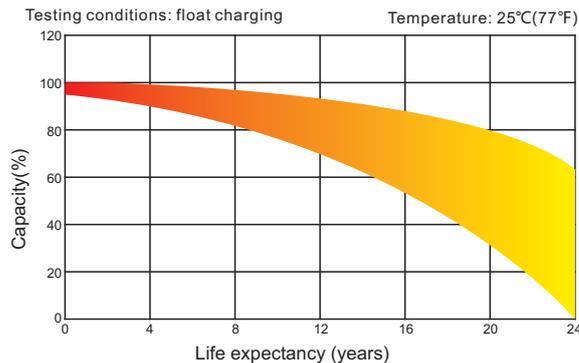
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-600 (2V600Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	600Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 29.5 Kg (Tolerance ± 5.0%)
Internal Resistance	≤0.55 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	2500A (5 sec)
Short Circuit Current	5080A
Design Life	20 years
Max. Charging Current	120 A
Reference Capacity	C ₁ 330.0Ah C ₃ 450.0Ah C ₅ 510.0Ah C ₁₀ 600.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



ISO 9001

ISO 14001

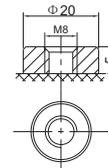
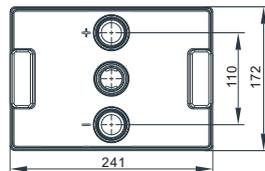
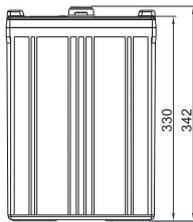
ISO 45001



MH 28539

BSTXD210316008515EC

Dimensions



F10 TERMINAL

Length	241±2mm (9.49 inches)
Width	172±2mm (6.77 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	568.7	366.6	225.8	169.2	136.2	113.2	76.1	63.3
1.65V	546.0	354.0	218.6	164.0	132.5	110.3	75.2	62.5
1.70V	521.8	342.5	211.4	159.6	128.9	107.4	74.1	61.6
1.75V	498.8	330.0	204.0	154.8	125.6	104.7	73.0	60.8
1.80V	476.7	317.4	196.7	150.0	122.0	102.0	71.8	60.0
1.85V	410.6	284.7	180.2	138.7	113.4	95.1	67.4	56.5

Constant Power Discharge Characteristics : W/Cell (25°C)

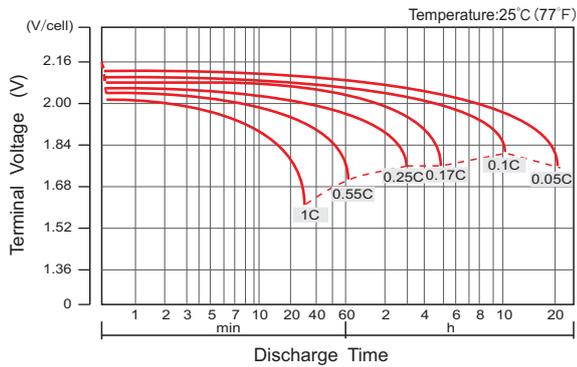
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1032.9	688.9	427.9	323.2	261.5	218.2	148.6	124.4
1.65V	1002.1	669.1	416.2	314.6	255.4	213.3	147.2	123.1
1.70V	967.4	651.4	404.7	307.4	249.4	208.5	145.3	121.4
1.75V	934.1	631.4	392.4	299.5	243.9	204.0	143.5	119.9
1.80V	901.9	610.8	380.3	291.3	237.8	199.4	141.4	118.6
1.85V	784.5	551.1	350.3	270.5	221.8	186.6	133.1	111.8

(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.

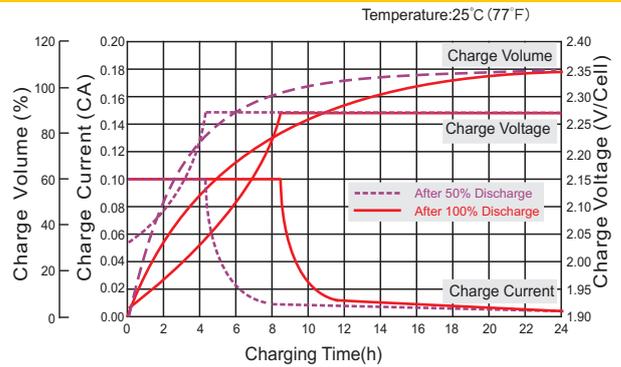
RL2-600(2V600Ah)



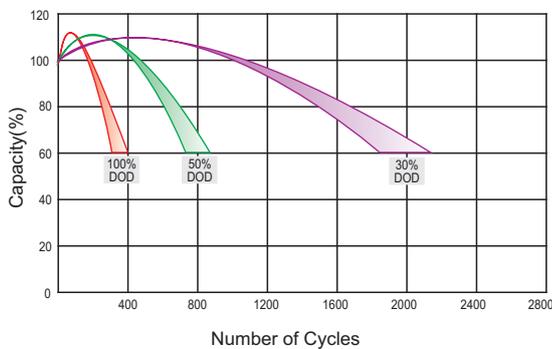
Discharge Characteristics Curve



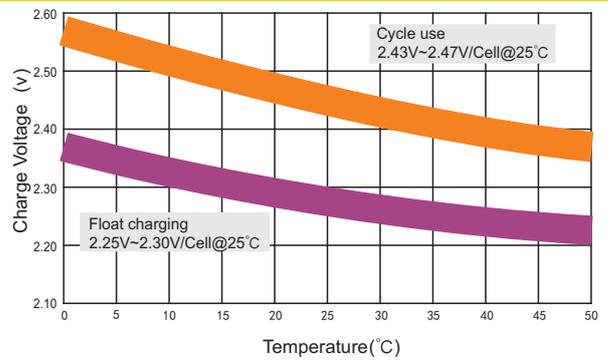
Charge Characteristic Curve For Standby Use(IU)



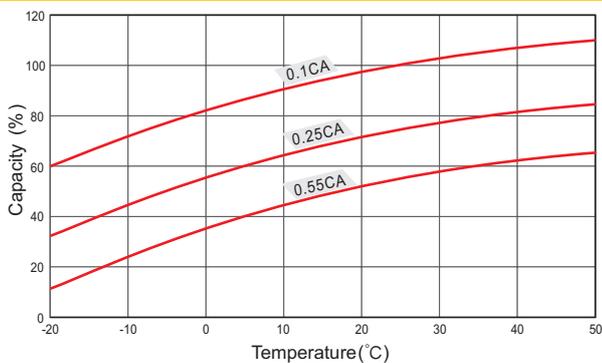
Cycle Life In Relation To Depth Of Discharge



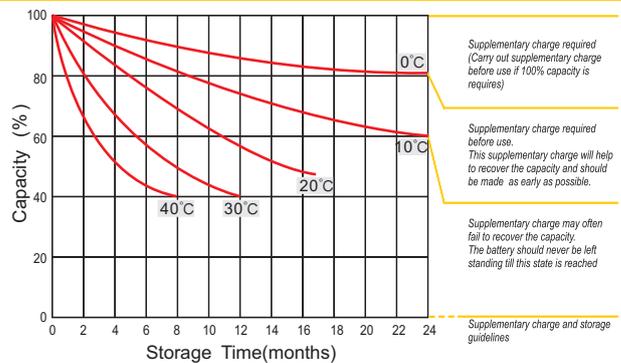
Relationship Between Charging Voltage And Temperature



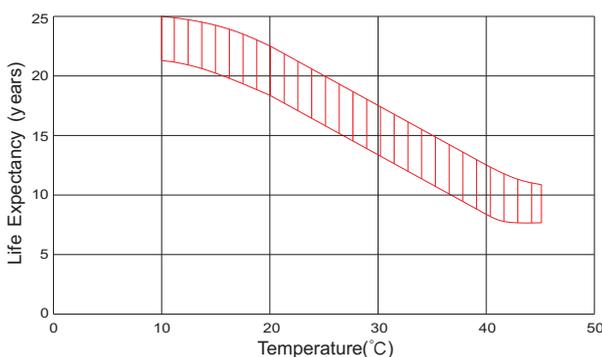
Temperature Effects On Capacity



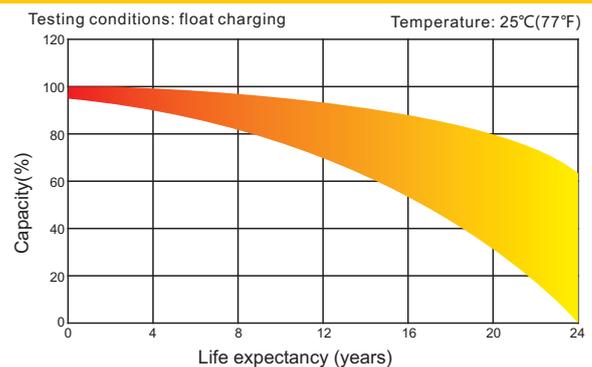
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-500 (2V500Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 25.5 Kg (Tolerance ± 5.0%)
Internal Resistance	≤0.60 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	2000A (5 sec)
Short Circuit Current	4210A
Design Life	20 years
Max. Charging Current	100 A
Reference Capacity	C ₁ 275.0Ah C ₃ 375.0Ah C ₅ 425.0Ah C ₁₀ 500.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



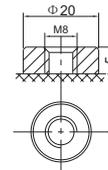
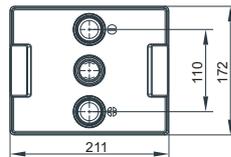
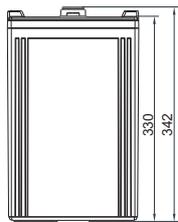
RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



ISO 9001 ISO 14001 ISO 45001



Dimensions



F10 TERMINAL

Length	211±2mm (8.31 inches)
Width	172±2mm (6.77 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	478.7	305.5	188.1	141.0	113.5	94.3	63.4	52.7
1.65V	459.6	295.0	182.1	136.7	110.4	91.9	62.7	52.1
1.70V	439.3	285.4	176.1	133.0	107.4	89.5	61.7	51.3
1.75V	419.9	275.0	170.0	129.0	104.7	87.2	60.9	50.6
1.80V	401.3	264.5	163.9	125.0	101.7	85.0	59.8	50.0
1.85V	345.6	237.2	150.2	115.6	94.5	79.3	56.2	47.1

Constant Power Discharge Characteristics : W/Cell (25°C)

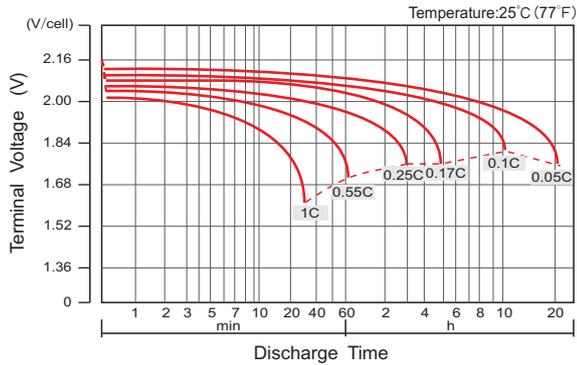
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	869.5	574.1	356.6	269.4	217.9	181.8	123.8	103.7
1.65V	843.6	557.6	346.9	262.1	212.8	177.8	122.7	102.6
1.70V	814.4	542.8	337.3	256.1	207.8	173.8	121.1	101.2
1.75V	786.4	526.1	327.0	249.6	203.3	170.0	119.6	99.9
1.80V	759.2	509.0	316.9	242.8	198.1	166.2	117.8	98.8
1.85V	660.4	459.3	291.9	225.5	184.9	155.5	110.9	93.1

(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.

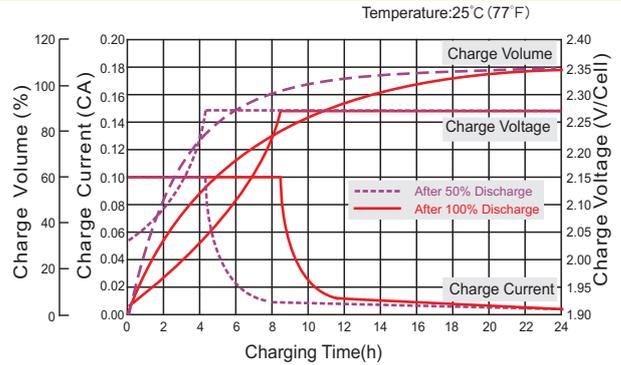
RL2-500(2V500Ah)



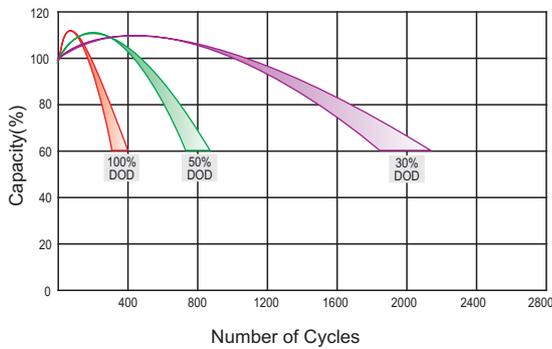
Discharge Characteristics Curve



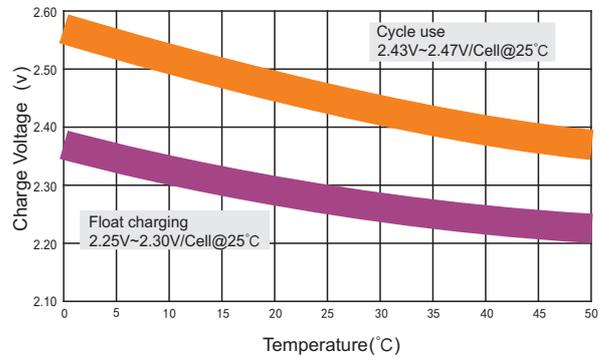
Charge Characteristic Curve For Standby Use(IU)



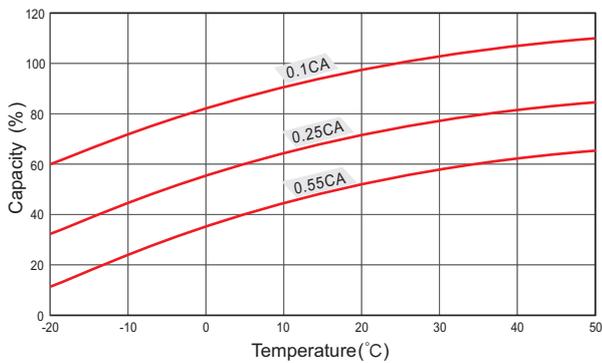
Cycle Life In Relation To Depth Of Discharge



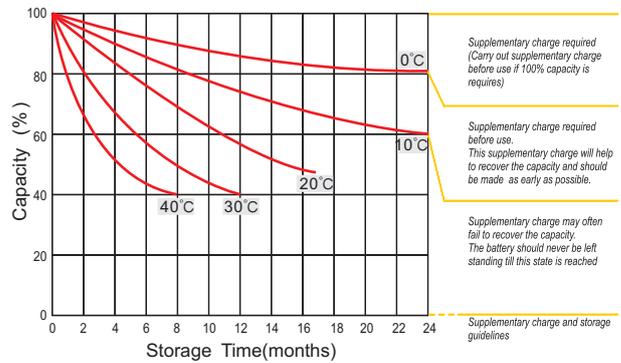
Relationship Between Charging Voltage And Temperature



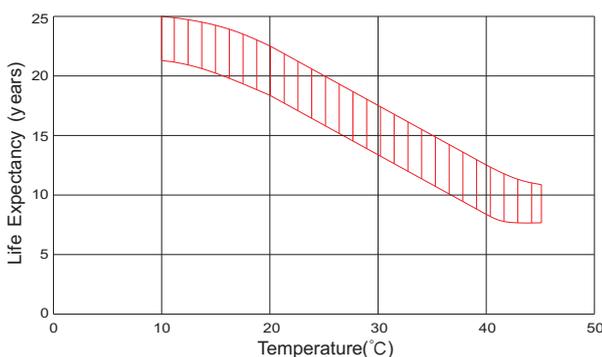
Temperature Effects On Capacity



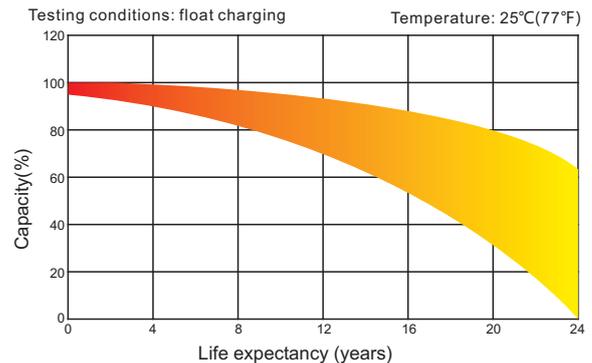
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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RL2-400 (2V400Ah)



Specification

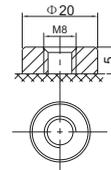
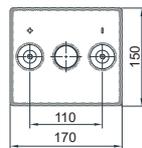
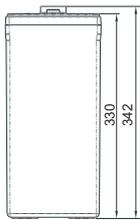
Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	400Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 19.0 Kg (Tolerance ± 5.0%)
Internal Resistance	≤0.68 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	2000A (5 sec)
Short Circuit Current	3400A
Design Life	20 years
Max. Charging Current	80 A
Reference Capacity	C ₁ 220.0Ah C ₃ 300.0Ah C ₅ 340.0Ah C ₁₀ 400.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



Dimensions



Length	170±2mm (6.69 inches)
Width	150±2mm (5.91 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F10 TERMINAL

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	390.8	244.4	150.5	112.8	90.8	75.5	50.7	42.2
1.65V	375.2	236.0	145.7	109.3	88.4	73.5	50.1	41.7
1.70V	358.6	228.3	140.9	106.4	86.0	71.6	49.4	41.1
1.75V	342.8	220.0	136.0	103.2	83.8	69.8	48.7	40.5
1.80V	327.6	211.6	131.1	100.0	81.3	68.0	47.9	40.0
1.85V	282.2	189.8	120.1	92.4	75.6	63.4	44.9	37.7

Constant Power Discharge Characteristics : W/Cell (25°C)

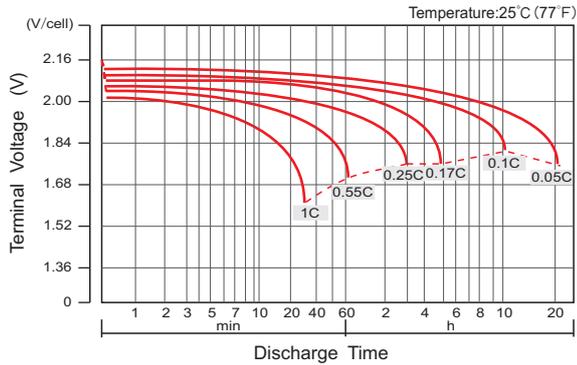
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	709.8	459.3	285.3	215.5	174.4	145.5	99.0	83.0
1.65V	688.6	446.1	277.5	209.7	170.3	142.2	98.1	82.1
1.70V	664.8	434.3	269.8	204.9	166.3	139.0	96.8	80.9
1.75V	642.0	420.9	261.6	199.6	162.6	136.0	95.7	80.0
1.80V	619.8	407.2	253.5	194.2	158.5	132.9	94.3	79.0
1.85V	539.1	367.4	233.5	180.4	147.9	124.4	88.7	74.5

(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.

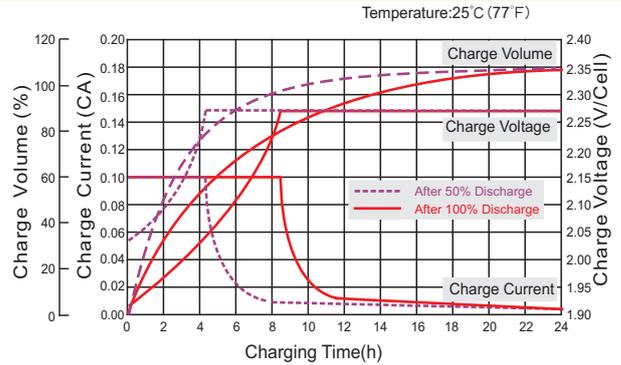
RL2-400(2V400Ah)



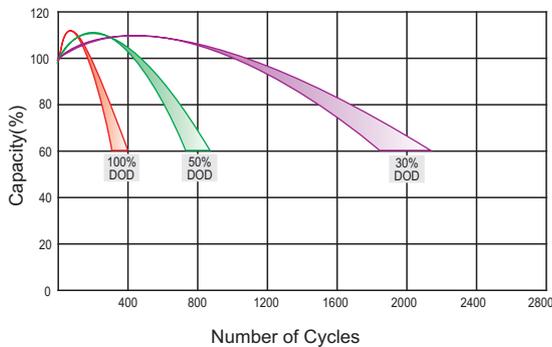
Discharge Characteristics Curve



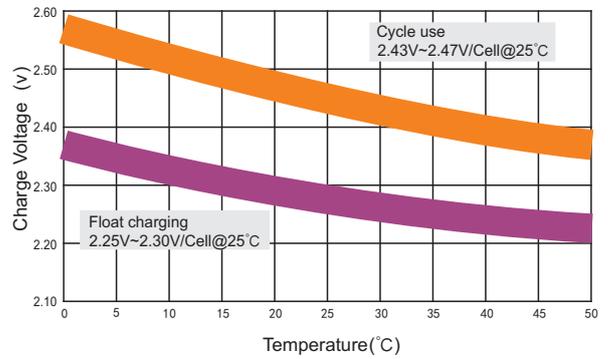
Charge Characteristic Curve For Standby Use(IU)



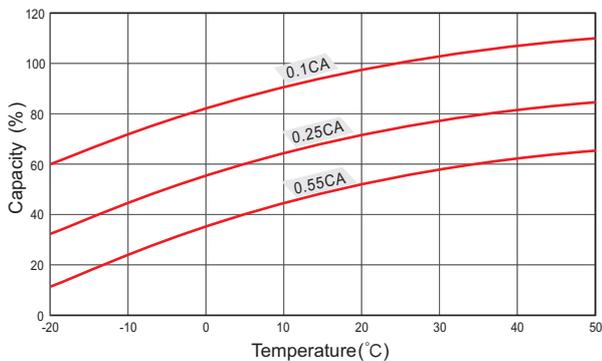
Cycle Life In Relation To Depth Of Discharge



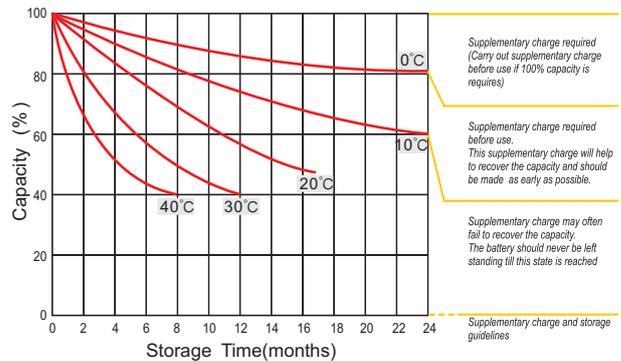
Relationship Between Charging Voltage And Temperature



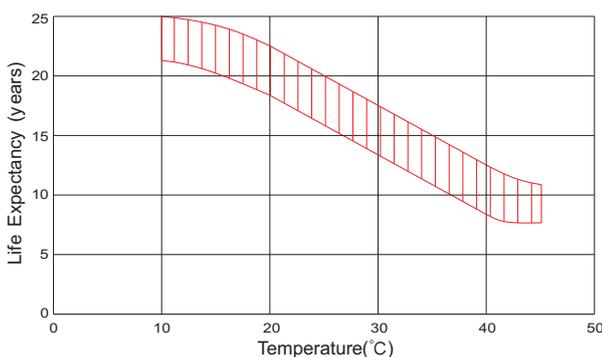
Temperature Effects On Capacity



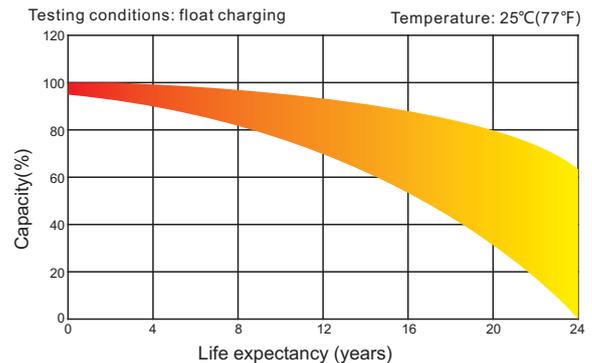
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-3000 (2V3000Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	3000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 159.0 Kg (Tolerance ±5.0%)
Internal Resistance	≤0.30 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	8000A (5 sec)
Short Circuit Current	23150A
Design Life	20 years
Max. Charging Current	600 A
Reference Capacity	C ₁ 1650.0Ah C ₃ 2250.0Ah C ₅ 2550.0Ah C ₁₀ 3000.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



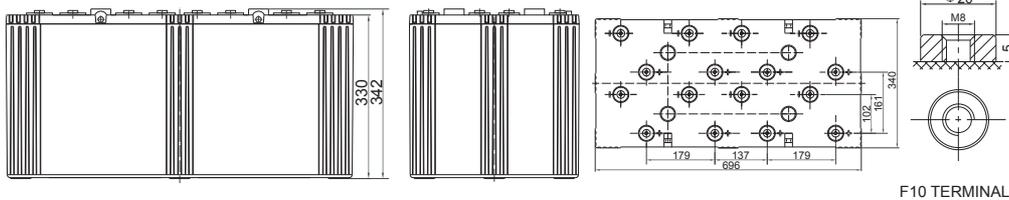
RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



ISO 9001 ISO 14001 ISO 45001



Dimensions



Length	696±2mm (27.4 inches)
Width	340±2mm (13.4 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F10 TERMINAL

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2901	1833	1129	846.1	681.1	566.0	380.4	316.5
1.65V	2814	1770	1093	820.0	662.7	551.3	376.1	312.6
1.70V	2690	1713	1057	797.8	644.7	537.0	370.3	307.9
1.75V	2571	1650	1020	773.9	628.2	523.5	365.2	303.9
1.80V	2457	1587	983.3	750.0	610.1	510.0	358.9	300.0
1.85V	2116	1423	901.0	693.3	567.1	475.6	337.0	282.4

Constant Power Discharge Characteristics : W/Cell (25°C)

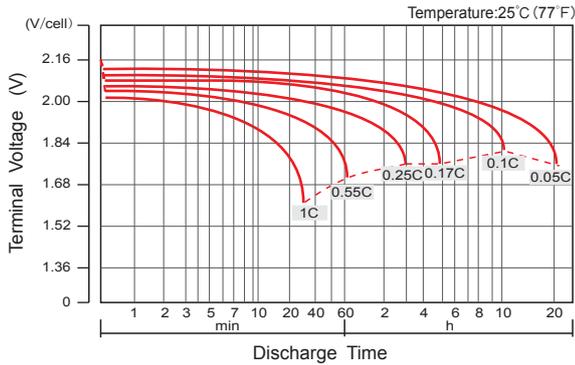
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	5270	3445	2139	1616	1308	1091	742.9	622.1
1.65V	5165	3346	2081	1573	1277	1067	736.1	615.4
1.70V	4986	3257	2024	1537	1247	1043	726.3	606.9
1.75V	4815	3157	1962	1497	1220	1020	717.7	599.7
1.80V	4648	3054	1901	1457	1189	997.0	707.1	592.8
1.85V	4043	2756	1752	1353	1109	932.8	665.4	558.9

(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.

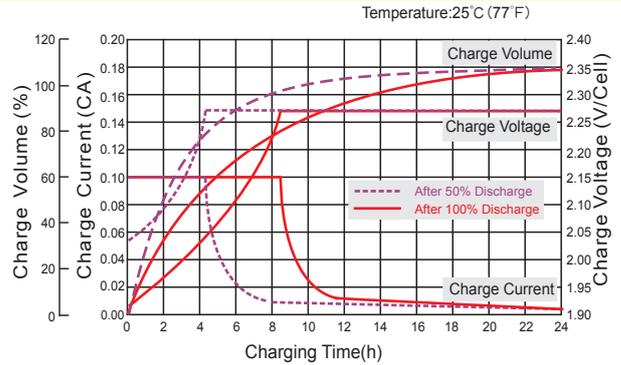
RL2-3000 (2V3000Ah)



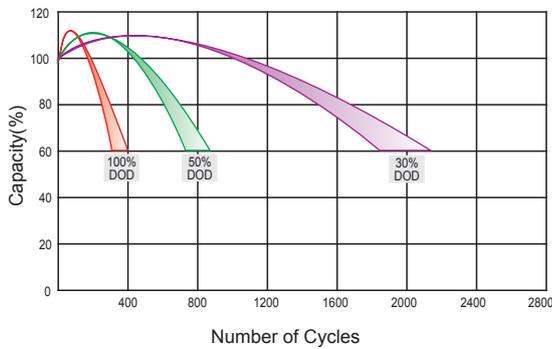
Discharge Characteristics Curve



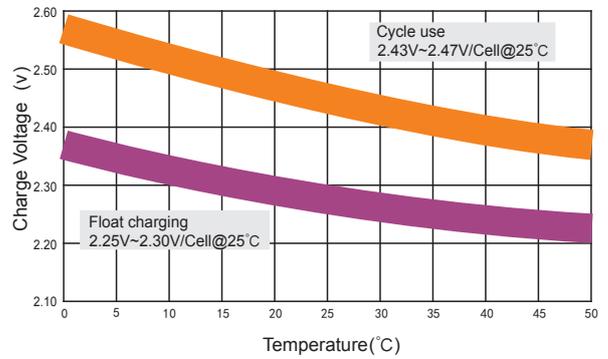
Charge Characteristic Curve For Standby Use(IU)



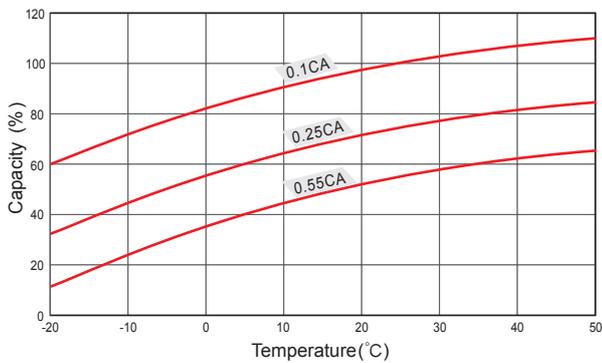
Cycle Life In Relation To Depth Of Discharge



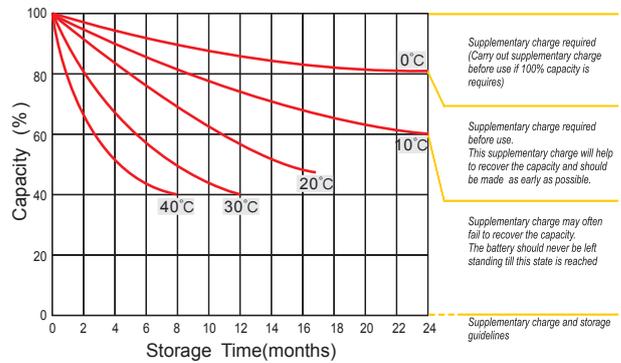
Relationship Between Charging Voltage And Temperature



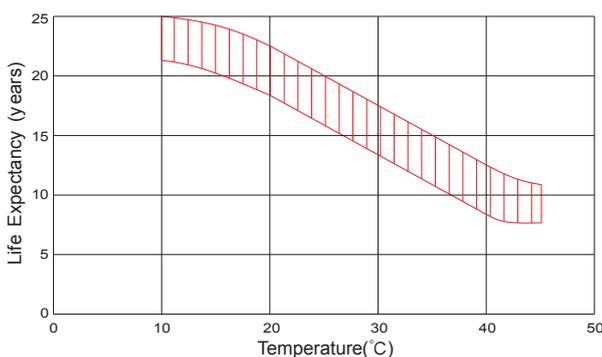
Temperature Effects On Capacity



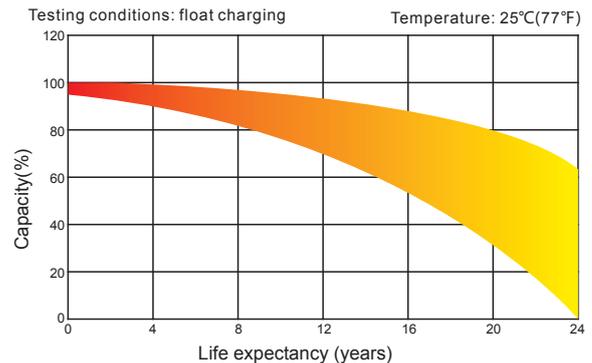
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-300 (2V300Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	300Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 16.0 Kg (Tolerance ± 5.0%)
Internal Resistance	≤0.72 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1500A (5 sec)
Short Circuit Current	2910A
Design Life	20 years
Max. Charging Current	60 A
Reference Capacity	C ₁ 165.0Ah C ₃ 225.0Ah C ₅ 255.0Ah C ₁₀ 300.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.

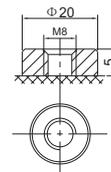
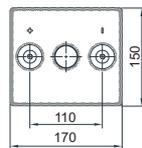
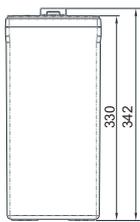


ISO 9001 ISO 14001 ISO 45001



MH 28539 BSTXD210316008515EC

Dimensions



F10 TERMINAL

Length	170±2mm (6.69 inches)
Width	150±2mm (5.91 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	463.8	293.1	183.3	112.9	84.6	68.1	56.6	38.0	31.6
1.65V	434.6	281.4	177.0	109.3	82.0	66.3	55.1	37.6	31.3
1.70V	407.0	269.0	171.3	105.7	79.8	64.5	53.7	37.0	30.8
1.75V	378.8	257.1	165.0	102.0	77.4	62.8	52.3	36.5	30.4
1.80V	349.7	245.7	158.7	98.3	75.0	61.0	51.0	35.9	30.0
1.85V	290.2	211.6	142.3	90.1	69.3	56.7	47.6	33.7	28.2

Constant Power Discharge Characteristics : W/Cell (25°C)

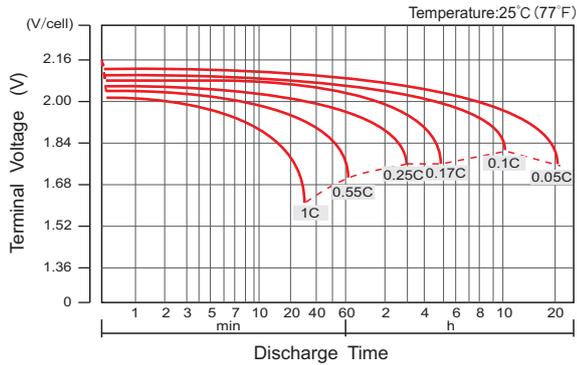
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	810.8	532.4	344.5	213.9	161.6	130.8	109.1	74.3	62.2
1.65V	771.0	516.5	334.6	208.1	157.3	127.7	106.7	73.6	61.5
1.70V	732.9	498.6	325.7	202.4	153.7	124.7	104.3	72.6	60.7
1.75V	691.9	481.5	315.7	196.2	149.7	122.0	102.0	71.8	60.0
1.80V	647.9	464.8	305.4	190.1	145.7	118.9	99.7	70.7	59.3
1.85V	545.3	404.3	275.6	175.2	135.3	110.9	93.3	66.5	55.9

(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.

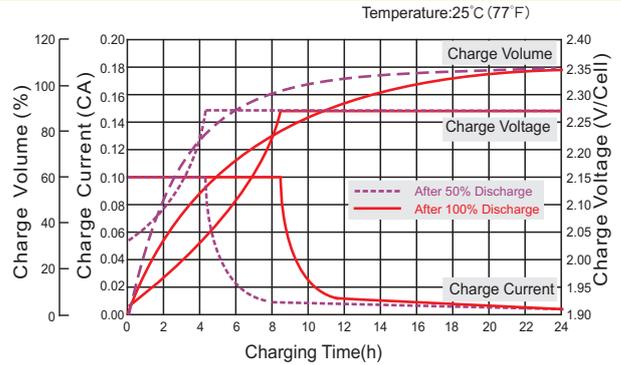
RL2-300(2V300Ah)



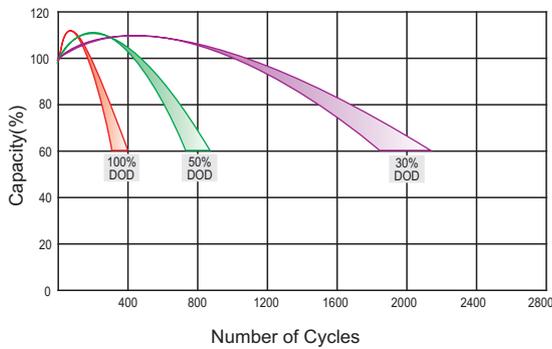
Discharge Characteristics Curve



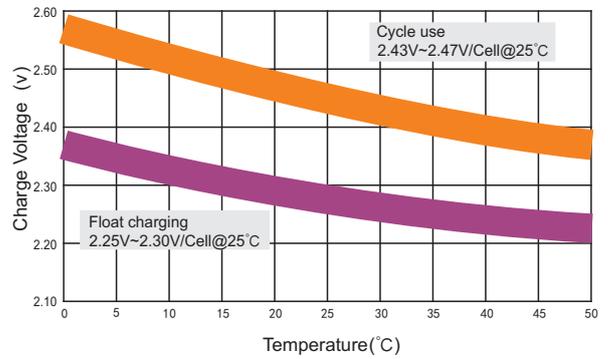
Charge Characteristic Curve For Standby Use(IU)



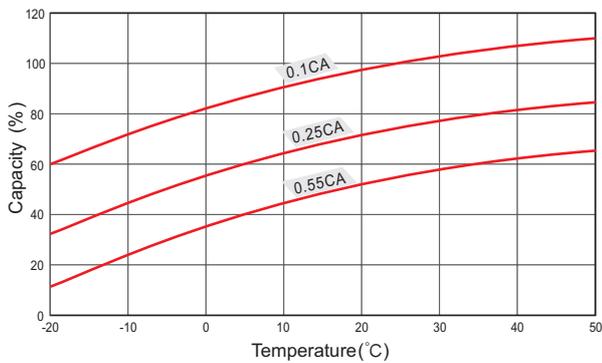
Cycle Life In Relation To Depth Of Discharge



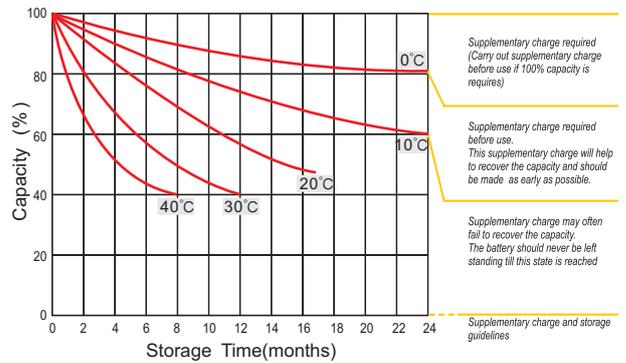
Relationship Between Charging Voltage And Temperature



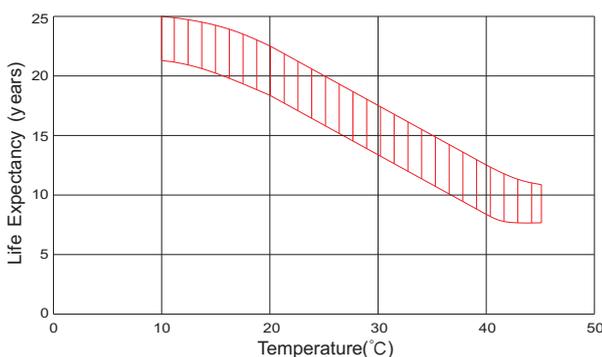
Temperature Effects On Capacity



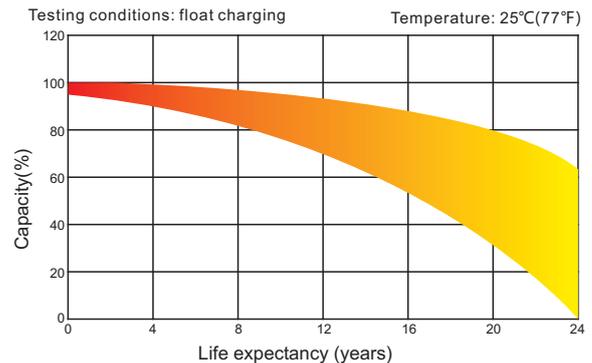
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-250 (2V250Ah)



Specification



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



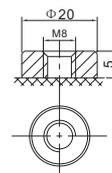
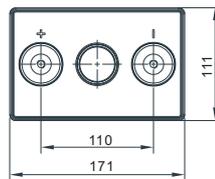
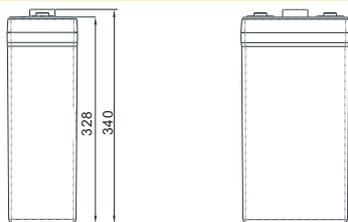
ISO 9001 ISO 14001 ISO 45001



MH 28539 BSTXD210316008515EC

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	250Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 13.3 Kg (Tolerance ± 5.0%)
Internal Resistance	≤ 0.78 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1250A (5 sec)
Short Circuit Current	2800A
Design Life	20 years
Max. Charging Current	50 A
Reference Capacity	C ₁ 137.5Ah C ₃ 187.5Ah C ₅ 212.5Ah C ₁₀ 250.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions



F10 TERMINAL

Length	171±2mm (6.73 inches)
Width	111±2mm (4.37 inches)
Height	328±2mm (12.9 inches)
Total Height	340±2mm (13.4 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	386.5	244.3	152.7	94.1	70.5	56.8	47.2	31.7	26.4
1.65V	362.1	234.5	147.5	91.1	68.3	55.2	45.9	31.3	26.1
1.70V	339.2	224.1	142.7	88.1	66.5	53.7	44.7	30.9	25.7
1.75V	315.6	214.2	137.5	85.0	64.5	52.3	43.6	30.4	25.3
1.80V	291.4	204.8	132.2	81.9	62.5	50.8	42.5	29.9	25.0
1.85V	241.8	176.4	118.6	75.1	57.8	47.3	39.6	28.1	23.5

Constant Power Discharge Characteristics : W/Cell (25°C)

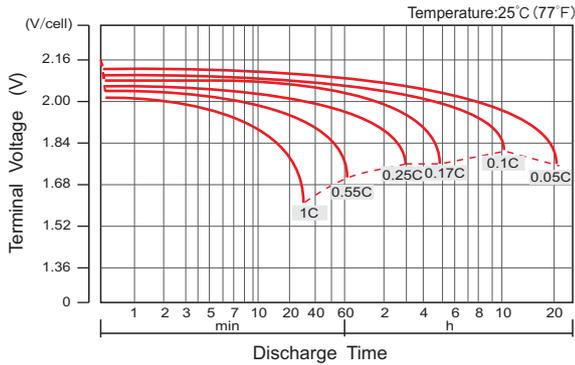
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	675.7	443.6	287.0	178.3	134.7	109.0	90.9	61.9	51.8
1.65V	642.5	430.4	278.8	173.4	131.1	106.4	88.9	61.3	51.3
1.70V	610.7	415.5	271.4	168.6	128.1	103.9	86.9	60.5	50.6
1.75V	576.6	401.2	263.1	163.5	124.8	101.6	85.0	59.8	50.0
1.80V	539.9	387.4	254.5	158.4	121.4	99.1	83.1	58.9	49.4
1.85V	454.4	336.9	229.6	146.0	112.7	92.4	77.7	55.4	46.6

(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.

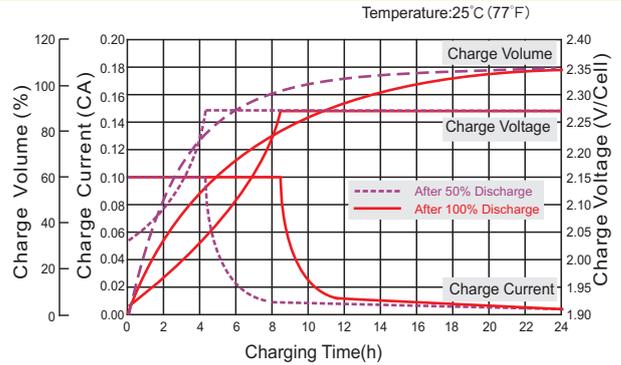
RL2-250(2V250Ah)



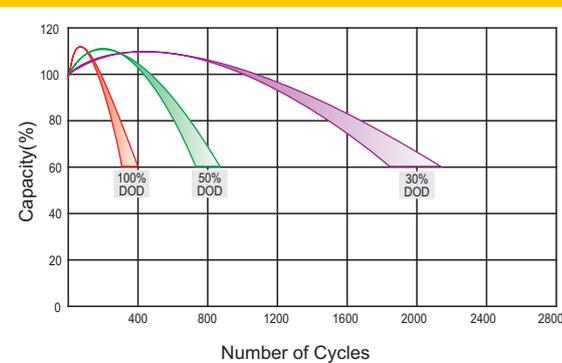
Discharge Characteristics Curve



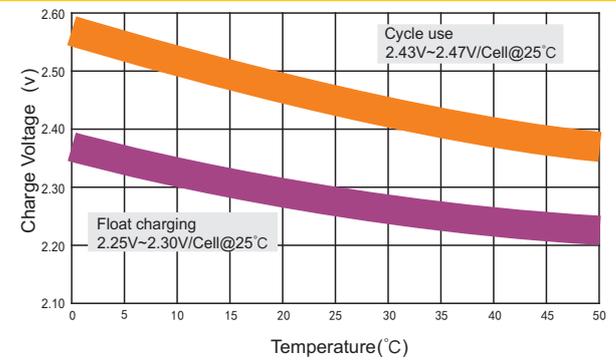
Charge Characteristic Curve For Standby Use(IU)



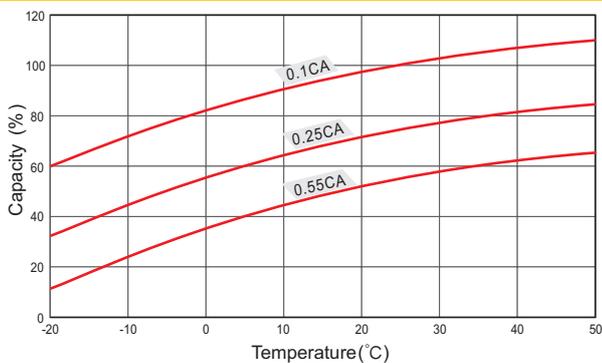
Cycle Life In Relation To Depth Of Discharge



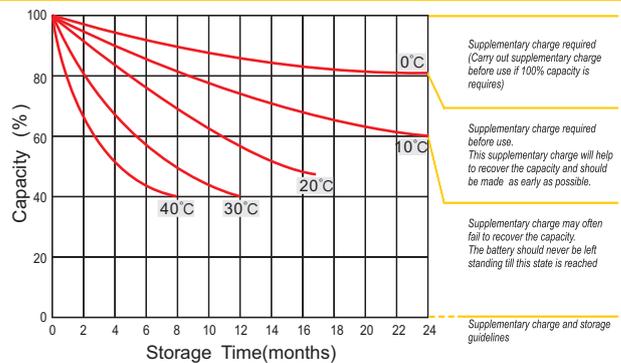
Relationship Between Charging Voltage And Temperature



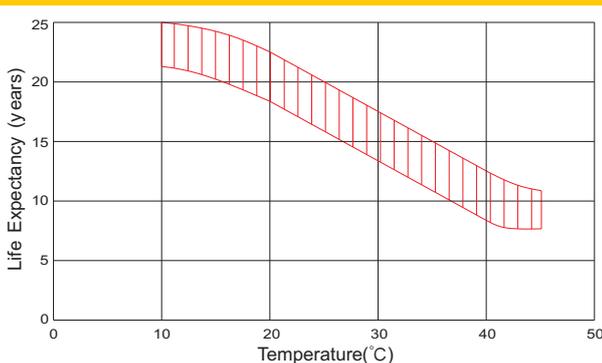
Temperature Effects On Capacity



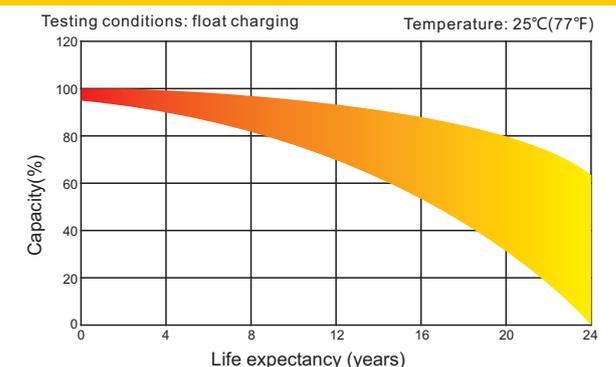
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-2000(2V2000Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	2000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 106.0 Kg (Tolerance ±5.0%)
Internal Resistance	≤0.35 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	7000A (5 sec)
Short Circuit Current	13380A
Design Life	20 years
Max. Charging Current	400 A
Reference Capacity	C ₁ 1100.0Ah C ₃ 1500.0Ah C ₅ 1700.0Ah C ₁₀ 2000.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.

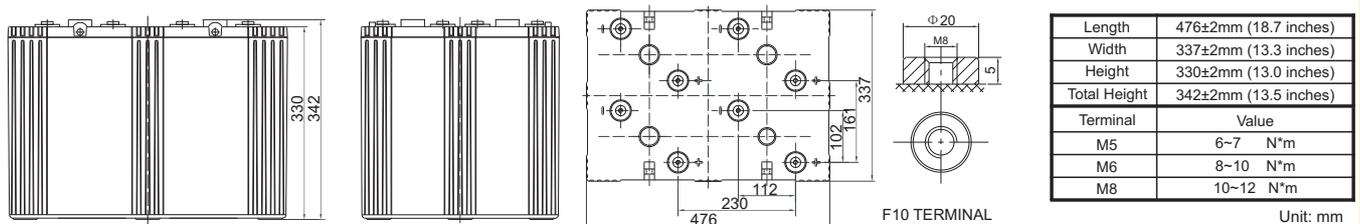


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MH 28539 BSTXD210316008515EC

Dimensions



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1934	1222	752.5	564.1	454.1	377.3	253.6	211.0
1.65V	1857	1180	728.5	546.7	441.8	367.5	250.7	208.4
1.70V	1775	1142	704.5	531.8	429.8	358.0	246.9	205.3
1.75V	1696	1100	679.9	516.0	418.8	349.0	243.5	202.6
1.80V	1622	1058	655.6	500.0	406.7	340.0	239.3	200.0
1.85V	1397	948.8	600.7	462.2	378.1	317.0	224.7	188.3

Constant Power Discharge Characteristics : W/Cell (25°C)

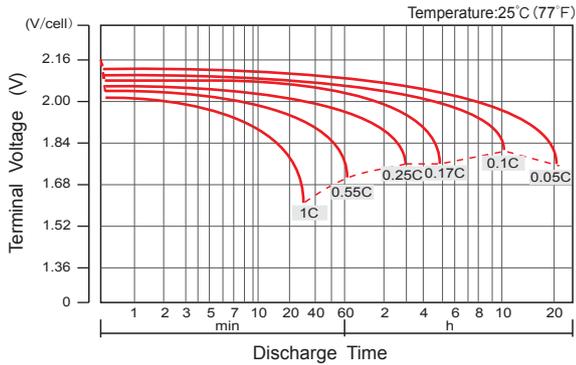
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	3513	2296	1426	1077	871.8	727.3	495.2	414.8
1.65V	3408	2230	1387	1049	851.3	711.1	490.7	410.3
1.70V	3290	2171	1349	1025	831.3	695.0	484.2	404.6
1.75V	3177	2105	1308	998.2	813.1	679.9	478.5	399.8
1.80V	3068	2036	1268	971.2	792.6	664.7	471.4	395.2
1.85V	2668	1837	1168	901.8	739.5	621.9	443.6	372.6

(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.

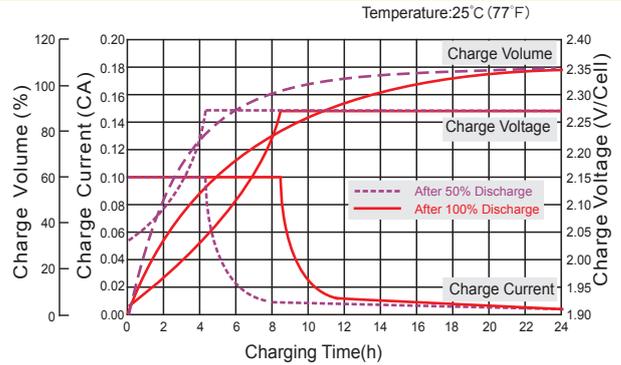
RL2-2000 (2V2000Ah)



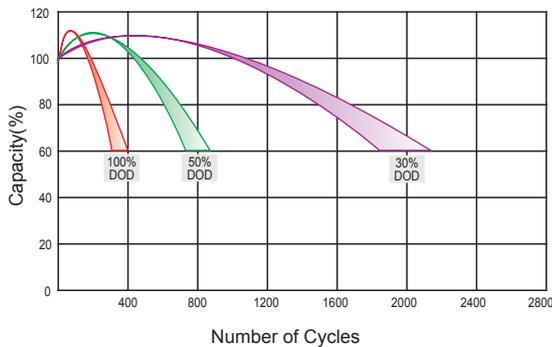
Discharge Characteristics Curve



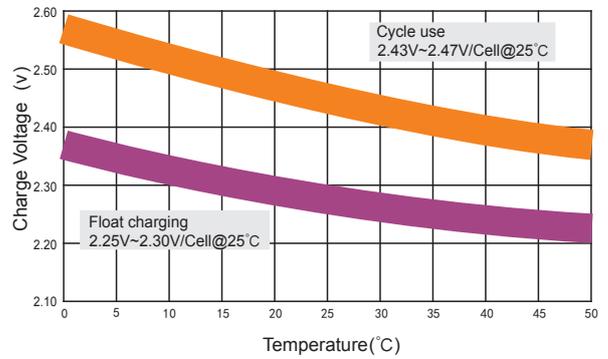
Charge Characteristic Curve For Standby Use(IU)



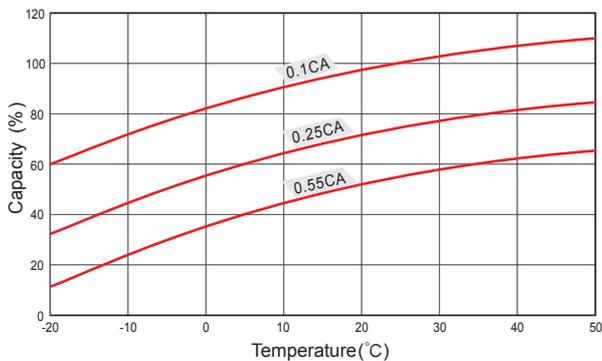
Cycle Life In Relation To Depth Of Discharge



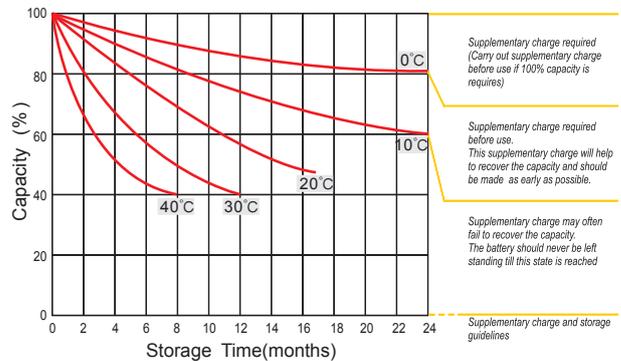
Relationship Between Charging Voltage And Temperature



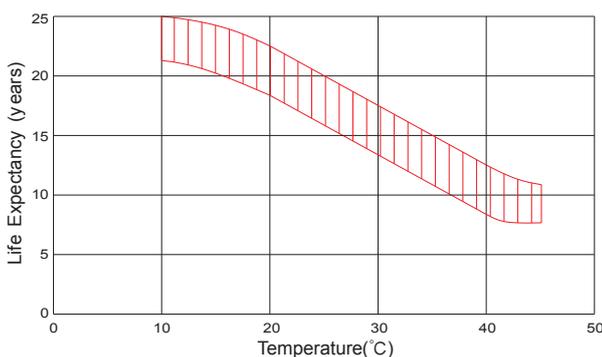
Temperature Effects On Capacity



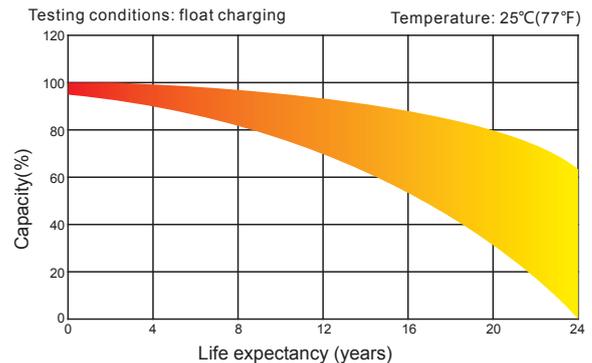
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-200 (2V200Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	200Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 11.0 Kg (Tolerance ±5.0%)
Internal Resistance	≤0.80 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1000A (5 sec)
Short Circuit Current	2650A
Design Life	20 years
Max. Charging Current	40 A
Reference Capacity	C ₁ 110.0Ah C ₃ 150.0Ah C ₅ 170.0Ah C ₁₀ 200.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.

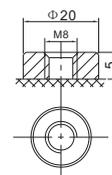
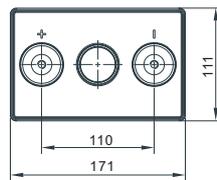
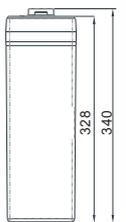


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MH 28539 BSTXD210316008515EC

Dimensions



F10 TERMINAL

Length	171±2mm (6.73 inches)
Width	111±2mm (4.37 inches)
Height	328±2mm (12.9 inches)
Total Height	340±2mm (13.4 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	309.2	195.4	122.2	75.3	56.4	45.4	37.7	25.4	21.1
1.65V	289.7	187.6	118.0	72.9	54.7	44.2	36.8	25.1	20.8
1.70V	271.3	179.3	114.2	70.5	53.2	43.0	35.8	24.7	20.5
1.75V	252.5	171.4	110.0	68.0	51.6	41.9	34.9	24.3	20.3
1.80V	233.2	163.8	105.8	65.6	50.0	40.7	34.0	23.9	20.0
1.85V	193.5	141.1	94.9	60.1	46.2	37.8	31.7	22.5	18.8

Constant Power Discharge Characteristics : W/Cell (25°C)

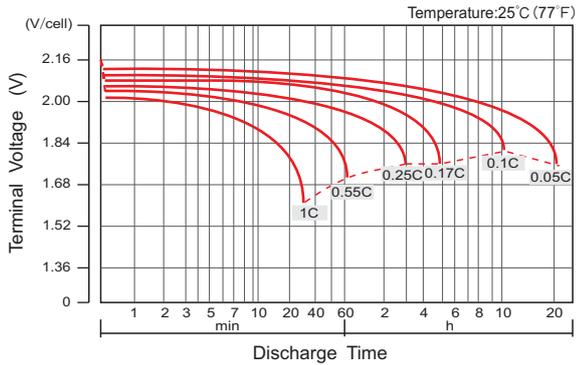
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	540.6	354.9	229.6	142.6	107.7	87.2	72.7	49.5	41.5
1.65V	514.0	344.3	223.0	138.7	104.9	85.1	71.1	49.1	41.0
1.70V	488.6	332.4	217.1	134.9	102.5	83.1	69.5	48.4	40.5
1.75V	461.3	321.0	210.5	130.8	99.8	81.3	68.0	47.8	40.0
1.80V	431.9	309.9	203.6	126.8	97.1	79.3	66.5	47.1	39.5
1.85V	363.5	269.5	183.7	116.8	90.2	73.9	62.2	44.4	37.3

(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.

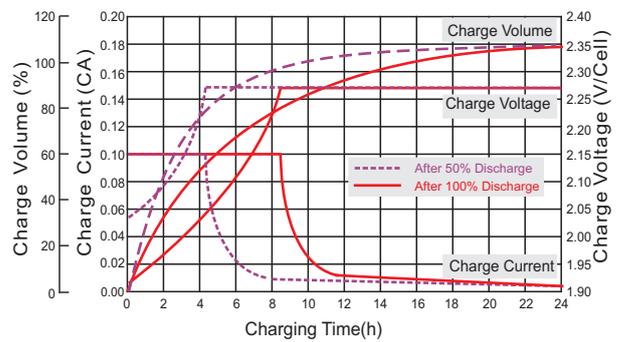
RL2-200(2V200Ah)



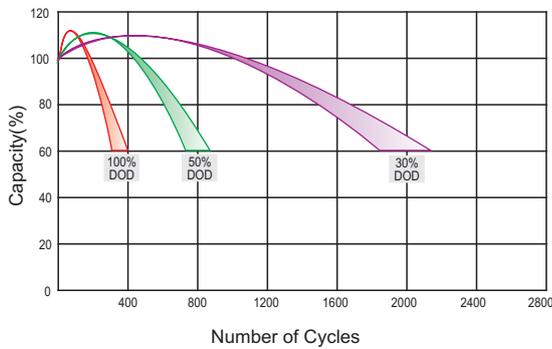
Discharge Characteristics Curve



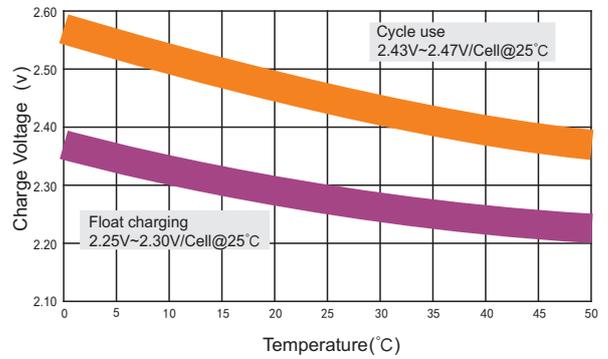
Charge Characteristic Curve For Standby Use(IU)



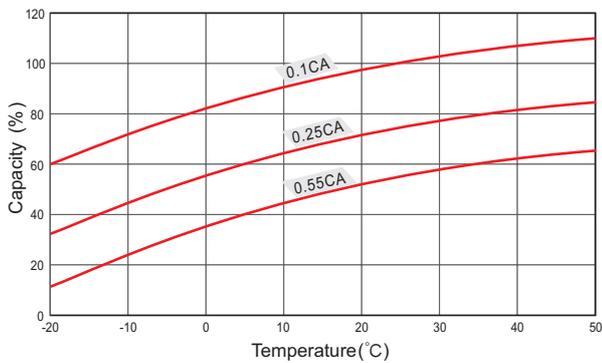
Cycle Life In Relation To Depth Of Discharge



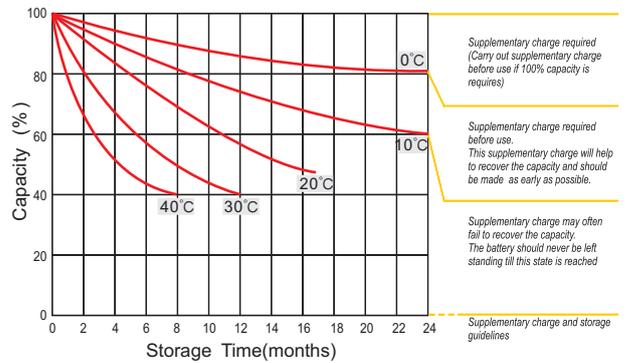
Relationship Between Charging Voltage And Temperature



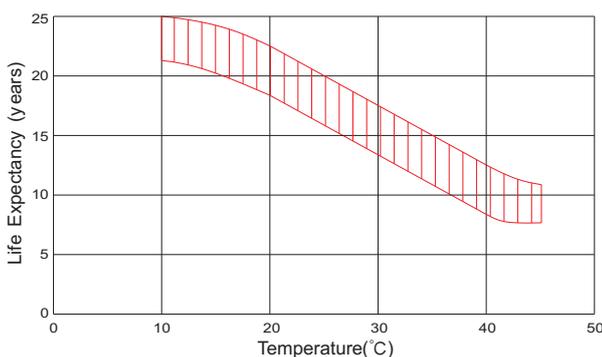
Temperature Effects On Capacity



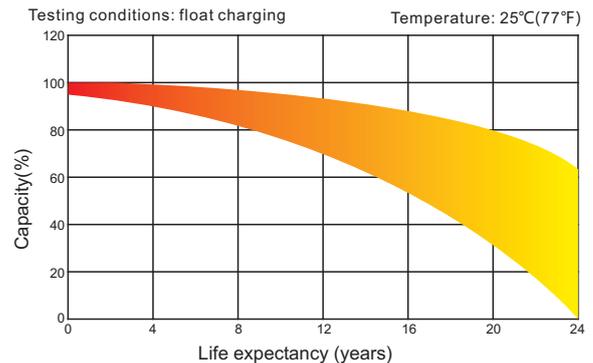
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-1500(2V1500Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	1500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 80.0 Kg (Tolerance ± 5.0%)
Internal Resistance	≤ 0.40 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	6000A (5 sec)
Short Circuit Current	10200A
Design Life	20 years
Max. Charging Current	300 A
Reference Capacity	C ₁ 825.0Ah C ₃ 1125.0Ah C ₅ 1275.0Ah C ₁₀ 1500.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.

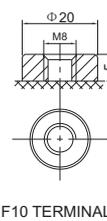
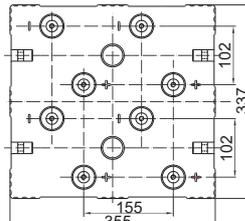
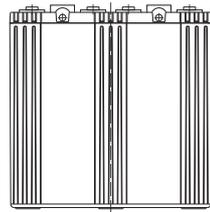
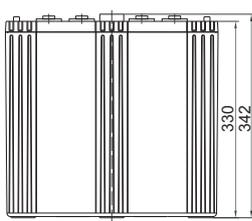


ISO 9001 ISO 14001 ISO 45001



MH 28539 BSTXD210316008515EC

Dimensions



F10 TERMINAL

Length	355±2mm (14.0 inches)
Width	337±2mm (13.3 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1451	916.5	564.4	423.1	340.6	283.0	190.2	158.2
1.65V	1393	885.1	546.4	410.0	331.3	275.6	188.1	156.3
1.70V	1331	856.3	528.4	398.9	322.3	268.5	185.1	154.0
1.75V	1272	825.0	509.9	387.0	314.1	261.7	182.6	151.9
1.80V	1216	793.4	491.7	375.0	305.1	255.0	179.5	150.0
1.85V	1047	711.6	450.5	346.7	283.5	237.8	168.5	141.2

Constant Power Discharge Characteristics : W/Cell (25°C)

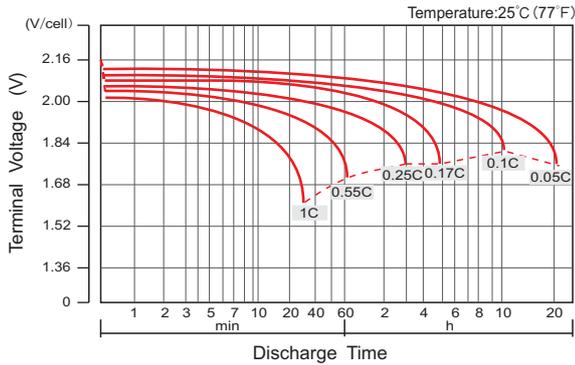
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2635	1722	1070	808.1	653.8	545.5	371.4	311.1
1.65V	2556	1673	1041	786.4	638.5	533.3	368.0	307.7
1.70V	2468	1628	1012	768.4	623.5	521.3	363.2	303.5
1.75V	2383	1578	981.0	748.7	609.8	509.9	358.8	299.8
1.80V	2301	1527	950.7	728.4	594.4	498.5	353.5	296.4
1.85V	2001	1378	875.8	676.4	554.6	466.4	332.7	279.4

(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.

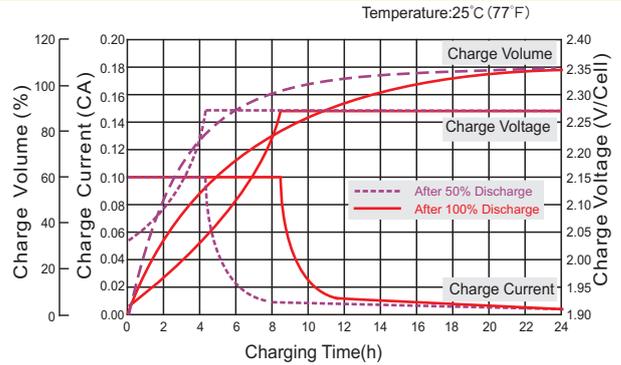
RL2-1500 (2V1500Ah)



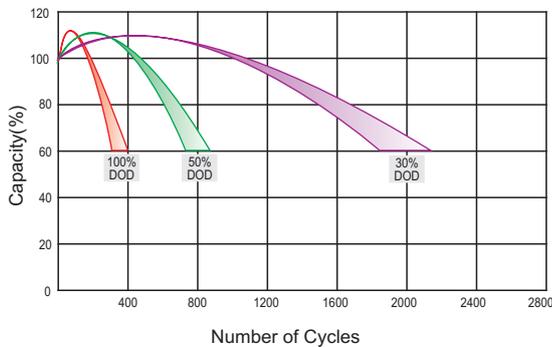
Discharge Characteristics Curve



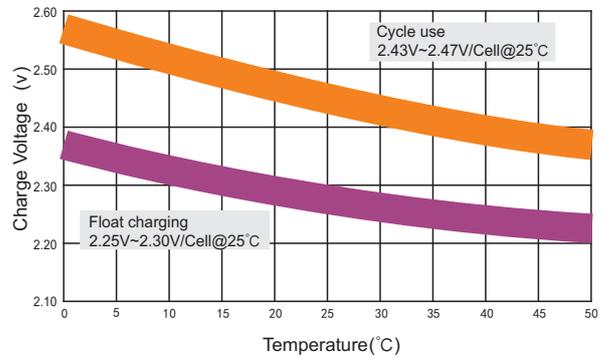
Charge Characteristic Curve For Standby Use(IU)



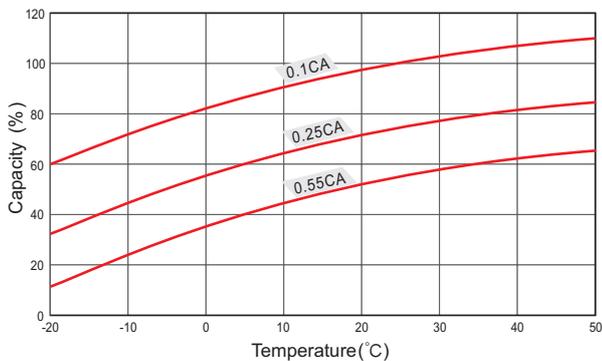
Cycle Life In Relation To Depth Of Discharge



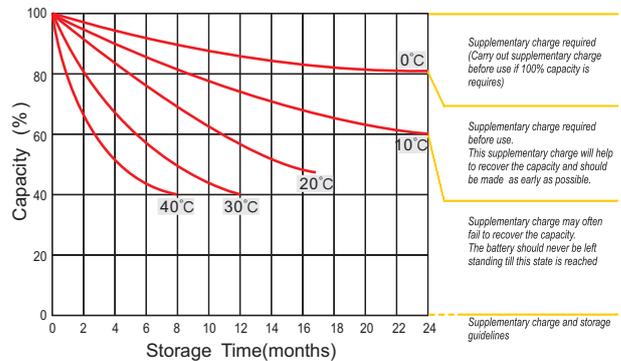
Relationship Between Charging Voltage And Temperature



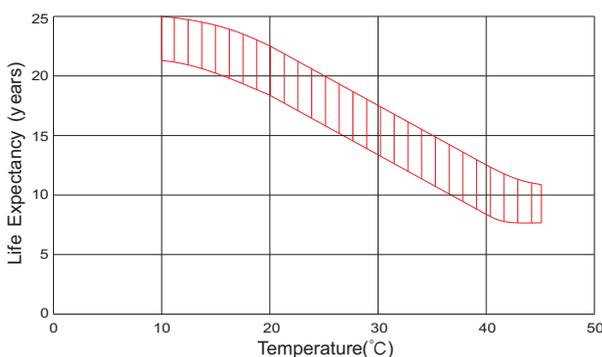
Temperature Effects On Capacity



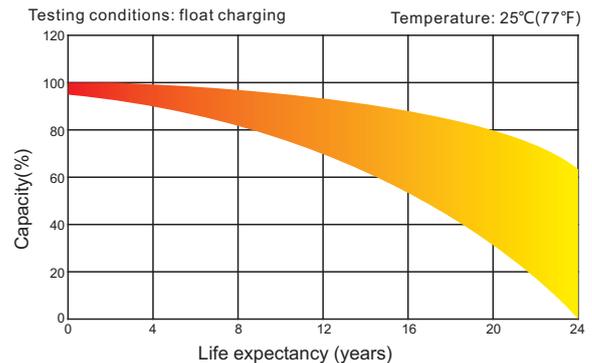
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

RL2-1000(2V1000Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	1000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 51.0 Kg (Tolerance ± 5.0%)
Internal Resistance	≤0.48 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	3200A (5 sec)
Short Circuit Current	6850A
Design Life	20 years
Max. Charging Current	200 A
Reference Capacity	C ₁ 550.0Ah C ₃ 750.0Ah C ₅ 850.0Ah C ₁₀ 1000.0Ah
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 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	MJB 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.

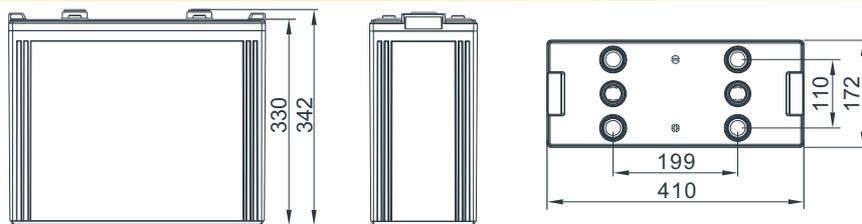


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MH 28539 BSTXD210316008515EC

Dimensions



Length	410±2mm (16.1 inches)
Width	172±2mm (6.77 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	947.8	611.0	376.3	282.0	227.0	188.7	126.8	105.5
1.65V	909.9	590.0	364.3	273.3	220.9	183.8	125.4	104.2
1.70V	869.7	570.9	352.3	265.9	214.9	179.0	123.4	102.6
1.75V	831.3	550.0	339.9	258.0	209.4	174.5	121.7	101.3
1.80V	794.5	529.0	327.8	250.0	203.4	170.0	119.6	100.0
1.85V	684.3	474.4	300.3	231.1	189.0	158.5	112.3	94.1

Constant Power Discharge Characteristics : W/Cell (25°C)

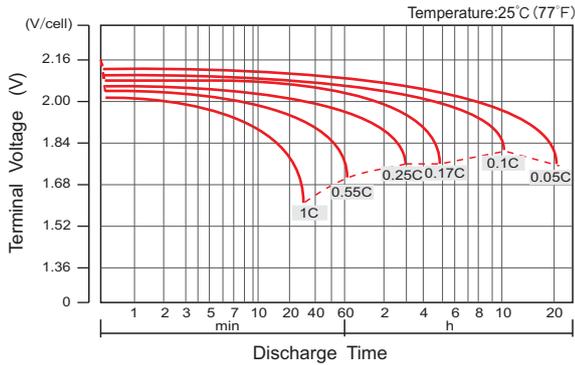
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1721.5	1148.2	713.1	538.7	435.9	363.7	247.6	207.4
1.65V	1670.1	1115.2	693.7	524.3	425.7	355.5	245.4	205.1
1.70V	1612.3	1085.7	674.6	512.3	415.7	347.5	242.1	202.3
1.75V	1556.9	1052.3	654.0	499.1	406.6	339.9	239.2	199.9
1.80V	1503.1	1017.9	633.8	485.6	396.3	332.3	235.7	197.6
1.85V	1307.4	918.6	583.9	450.9	369.7	310.9	221.8	186.3

(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.

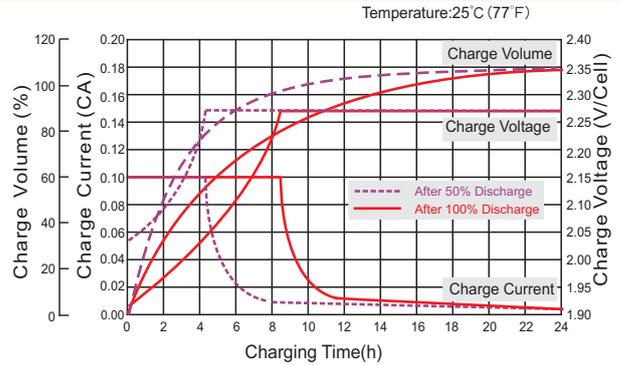
RL2-1000 (2V1000Ah)



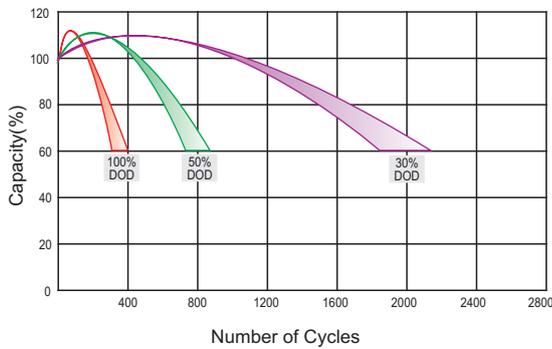
Discharge Characteristics Curve



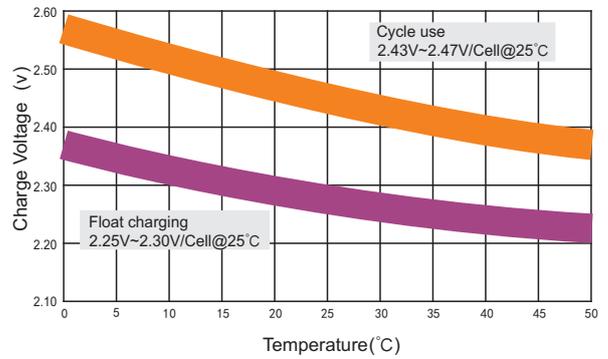
Charge Characteristic Curve For Standby Use (IU)



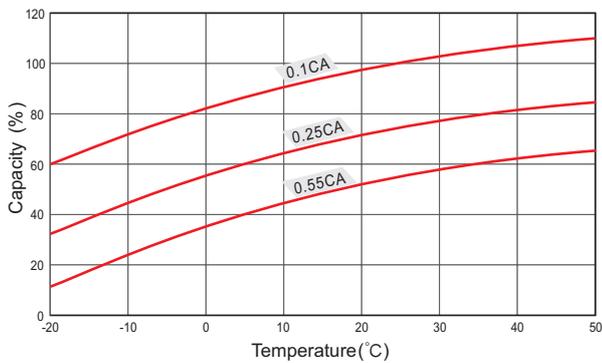
Cycle Life In Relation To Depth Of Discharge



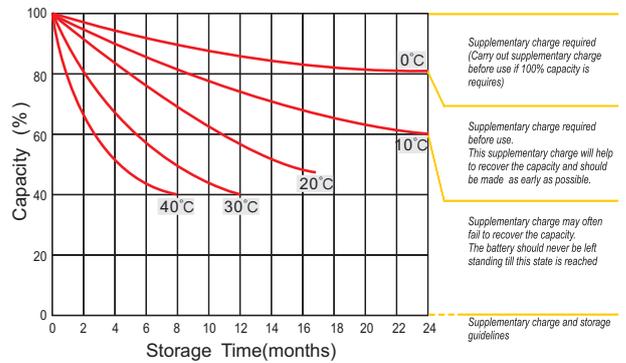
Relationship Between Charging Voltage And Temperature



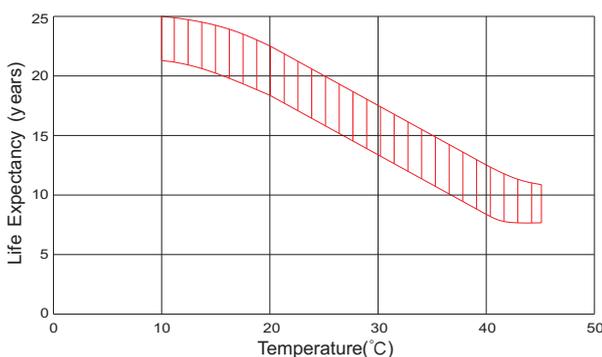
Temperature Effects On Capacity



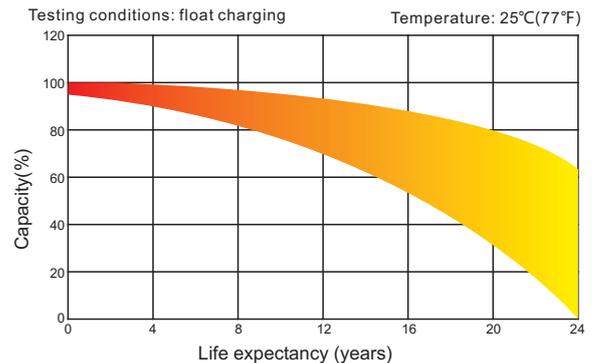
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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