

OPzV2-1200(2V1200Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

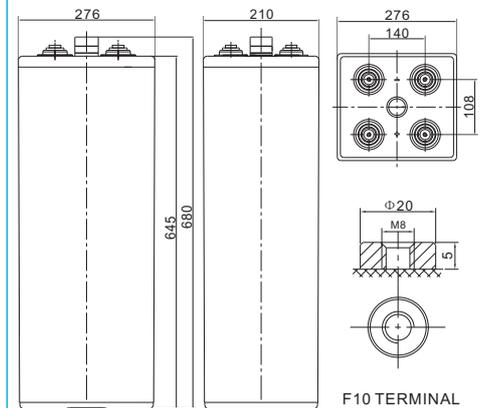


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	1200Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 83.0Kg (Tolerance ±5%)
Internal Resistance	≤0.48 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	4000A (5 sec)
Design Life	25 years
Max. Charging Current	240.0 A
Reference Capacity	C ₃ 900.0Ah C ₅ 1020.0Ah C ₁₀ 1200.0Ah C ₂₀ 1286.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	276±2mm (10.9 inches)
Width	210±2mm (8.27 inches)
Height	645±2mm (25.4 inches)
Total Height	680±2mm (26.8 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	652.0	424.5	322.8	256.8	217.2	150.0	126.0	66.2	56.7	29.9	21.0	15.8
1.65V	641.7	418.7	319.2	254.0	214.8	148.8	124.8	65.5	56.2	29.6	20.6	15.6
1.70V	625.5	411.6	313.2	249.5	211.2	146.4	123.6	64.9	55.6	29.4	20.4	15.5
1.75V	599.0	401.0	307.2	245.7	208.8	145.2	122.4	64.3	55.1	29.1	20.2	15.3
1.80V	576.0	388.1	300.0	240.0	204.0	142.8	120.0	63.0	54.0	28.5	19.8	15.0
1.85V	514.9	354.0	276.0	222.0	189.6	133.2	112.8	59.2	50.8	26.8	18.6	14.1

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	1135	780.6	615.3	493.3	419.3	292.4	246.4	130.5	110.9	58.5	41.1	30.8
1.65V	1127	773.8	610.8	489.6	416.1	290.8	244.7	129.4	110.1	58.1	40.4	30.6
1.70V	1109	764.7	601.7	482.6	410.5	287.0	243.0	128.4	109.3	57.7	40.2	30.4
1.75V	1072	748.8	592.4	477.1	407.2	285.4	241.2	127.3	108.5	57.3	39.9	30.1
1.80V	1040	728.3	580.7	467.7	399.2	281.5	237.1	125.0	106.7	56.3	39.2	29.6
1.85V	938.0	667.7	536.3	434.2	372.3	263.3	223.4	117.6	100.5	53.1	36.9	27.9

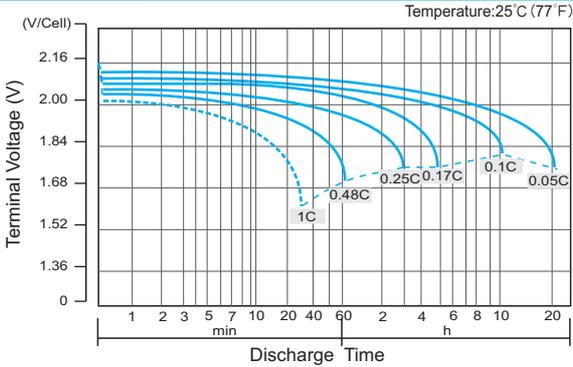
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

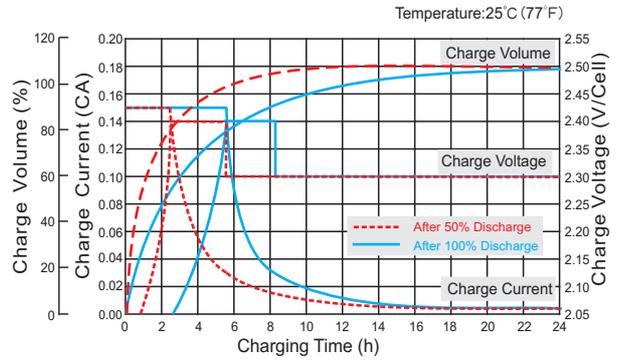
OPzV2-1200(2V1200Ah)



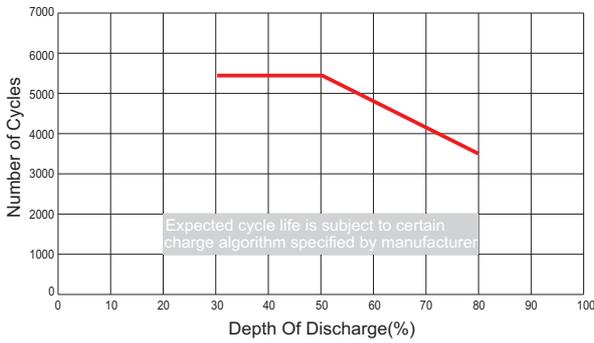
Discharge Characteristics Curve



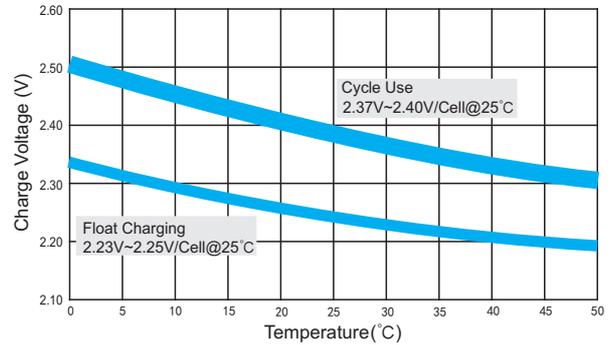
Charge Characteristic Curve for Cycle Use(IUU)



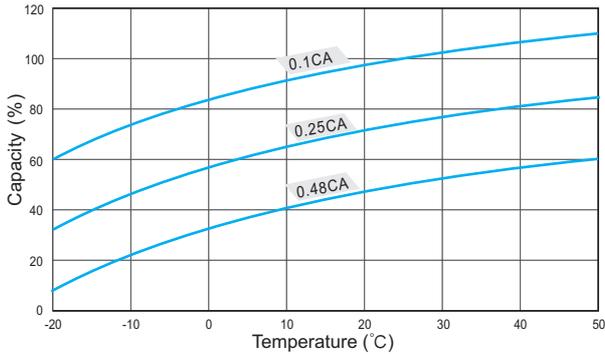
Cycle Life in Relation to Depth of Discharge



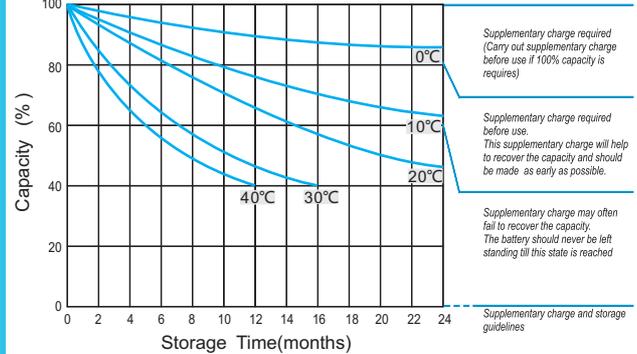
Relationship Between Charging Voltage and Temperature



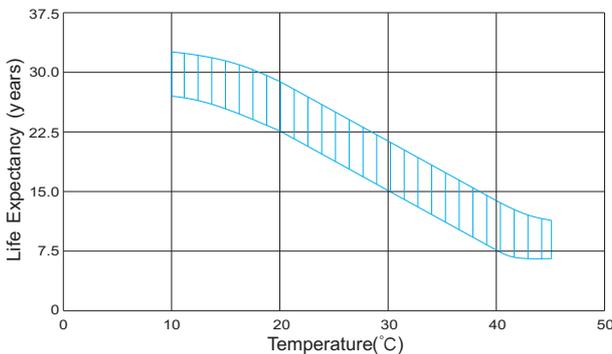
Temperature Effects on Capacity



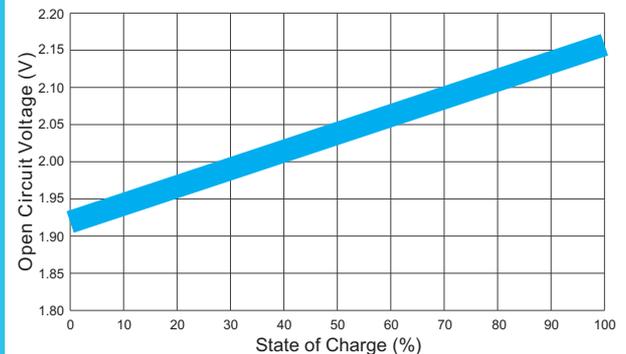
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-3000(2V3000Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

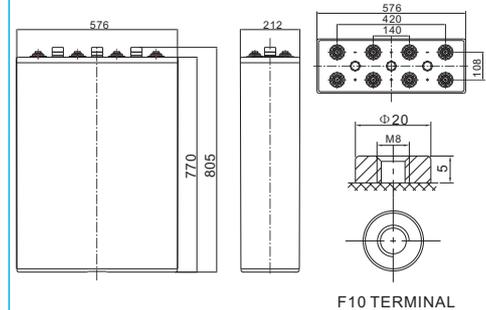


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	3000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 208.0Kg (Tolerance ±5%)
Internal Resistance	≤0.43 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	12000A (5 sec)
Design Life	25 years
Max. Charging Current	600.0 A
Reference Capacity	C ₃ 2250.0Ah C ₅ 2550.0Ah C ₁₀ 3000.0Ah C ₂₀ 3214.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 2% at 20°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	576±2mm (22.7 inches)
Width	212±2mm (8.35 inches)
Height	770±2mm (30.3 inches)
Total Height	805±2mm (31.7 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	1630	1061	807.0	642.0	543.0	375.0	315.0	165.4	141.8	74.8	52.5	39.4
1.65V	1604	1047	798.0	634.9	537.0	372.0	312.0	163.8	140.4	74.1	51.6	39.0
1.70V	1564	1029	783.0	623.6	528.0	366.0	309.0	162.2	139.1	73.4	51.1	38.6
1.75V	1498	1003	768.0	614.3	522.0	363.0	306.0	160.7	137.7	72.7	50.6	38.3
1.80V	1440	970.2	750.0	600.0	510.0	357.0	300.0	157.5	135.0	71.3	49.6	37.5
1.85V	1287	884.9	690.0	555.0	474.0	333.0	282.0	148.1	126.9	67.0	46.6	35.3

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	2838	1952	1538	1233	1048	730.9	616.1	326.3	277.2	146.3	102.7	77.0
1.65V	2819	1934	1527	1224	1040	727.1	611.8	323.6	275.3	145.3	101.1	76.5
1.70V	2773	1912	1504	1207	1026	717.4	607.4	320.9	273.3	144.3	100.4	75.9
1.75V	2680	1872	1481	1193	1018	713.5	603.0	318.2	271.3	143.2	99.7	75.4
1.80V	2600	1821	1452	1169	998.0	703.7	592.6	312.4	266.7	140.8	98.0	74.1
1.85V	2345	1669	1341	1086	930.7	658.3	558.5	294.0	251.3	132.6	92.3	69.8

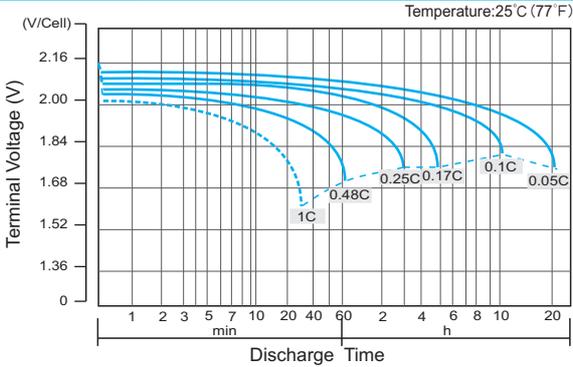
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

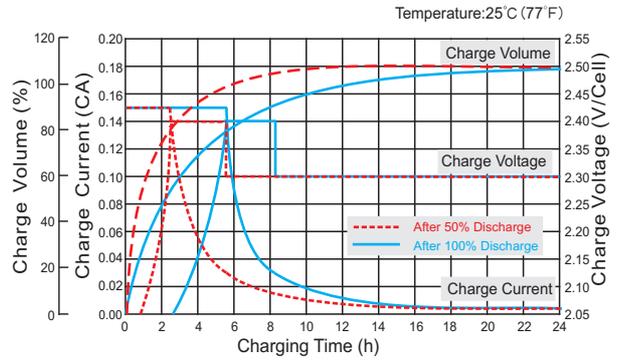
OPzV2-3000(2V3000Ah)



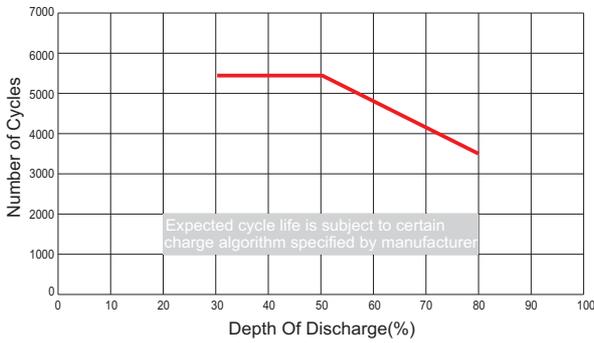
Discharge Characteristics Curve



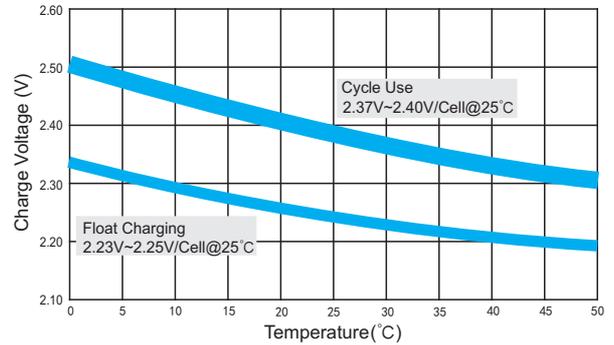
Charge Characteristic Curve for Cycle Use(IUU)



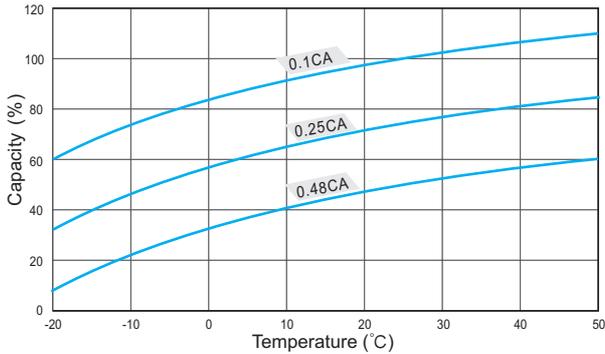
Cycle Life in Relation to Depth of Discharge



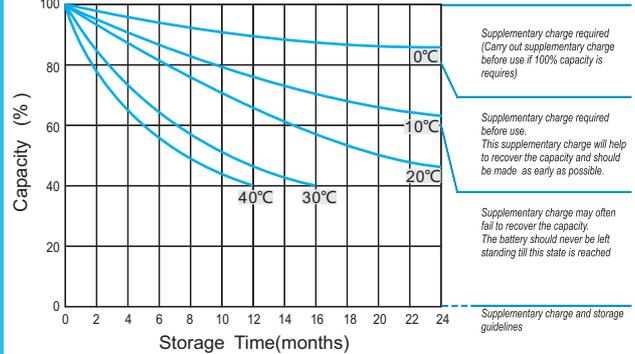
Relationship Between Charging Voltage and Temperature



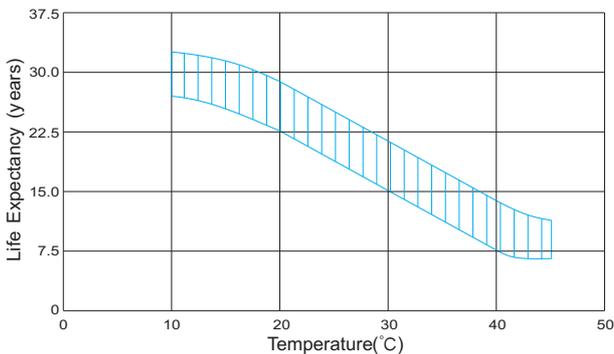
Temperature Effects on Capacity



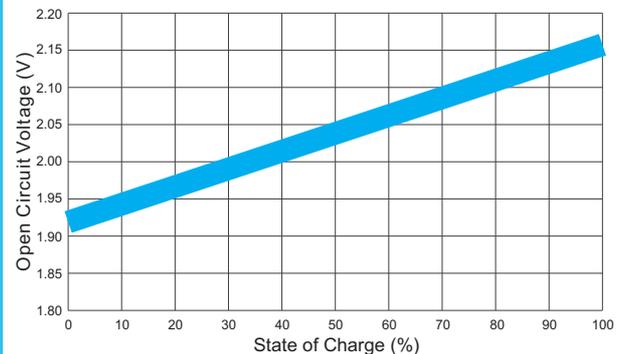
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-800(2V800Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

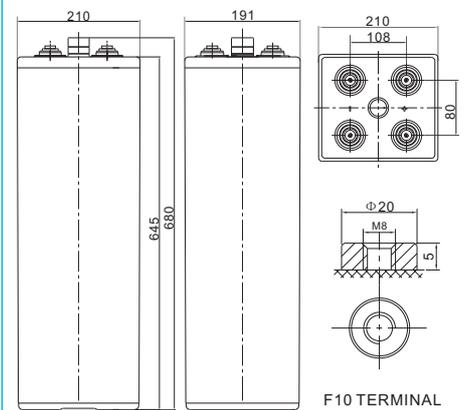


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	800Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 57.5Kg (Tolerance ± 5%)
Internal Resistance	≤0.6 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	3500A (5 sec)
Design Life	25 years
Max. Charging Current	160.0 A
Reference Capacity	C ₃ 600.0Ah C ₅ 680.0Ah C ₁₀ 800.0Ah C ₂₀ 856.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	191±2mm (7.52 inches)
Width	210±2mm (8.27 inches)
Height	645±2mm (25.4 inches)
Total Height	680±2mm (26.8 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	434.7	283.0	215.2	171.2	144.8	100.0	84.0	44.1	37.8	20.0	14.0	10.5
1.65V	427.8	279.1	212.8	169.3	143.2	99.2	83.2	43.7	37.4	19.8	13.8	10.4
1.70V	417.0	274.4	208.8	166.3	140.8	97.6	82.4	43.3	37.1	19.6	13.6	10.3
1.75V	399.4	267.3	204.8	163.8	139.2	96.8	81.6	42.8	36.7	19.4	13.5	10.2
1.80V	384.0	258.7	200.0	160.0	136.0	95.2	80.0	42.0	36.0	19.0	13.2	10.0
1.85V	343.3	236.0	184.0	148.0	126.4	88.8	75.2	39.5	33.8	17.9	12.4	9.40

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	756.7	520.4	410.2	328.8	279.5	194.9	164.3	87.0	73.9	39.0	27.4	20.5
1.65V	751.6	515.9	407.2	326.4	277.4	193.9	163.1	86.3	73.4	38.7	27.0	20.4
1.70V	739.5	509.8	401.1	321.8	273.7	191.3	162.0	85.6	72.9	38.5	26.8	20.2
1.75V	714.6	499.2	394.9	318.1	271.5	190.3	160.8	84.9	72.4	38.2	26.6	20.1
1.80V	693.3	485.5	387.2	311.8	266.1	187.7	158.0	83.3	71.1	37.5	26.1	19.8
1.85V	625.3	445.1	357.5	289.5	248.2	175.5	148.9	78.4	67.0	35.4	24.6	18.6

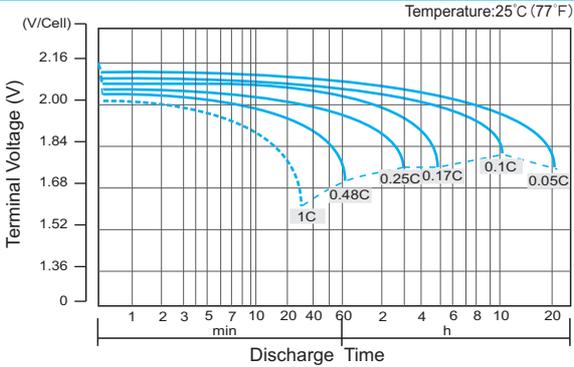
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

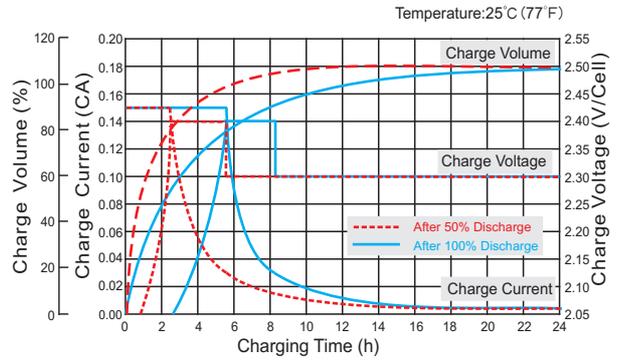
OPzV2-800(2V800Ah)



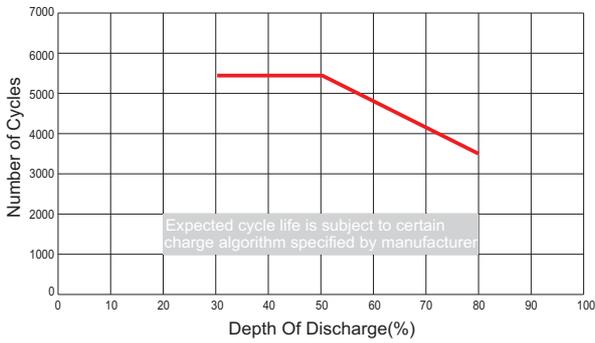
Discharge Characteristics Curve



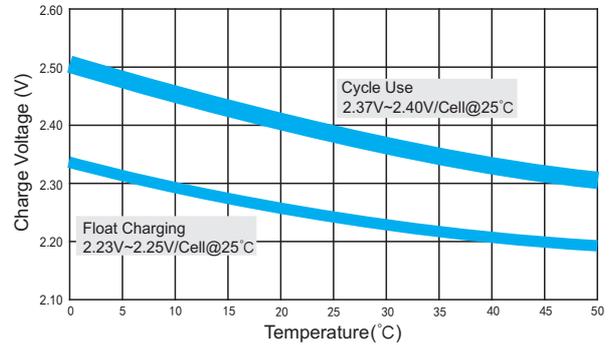
Charge Characteristic Curve for Cycle Use(IUU)



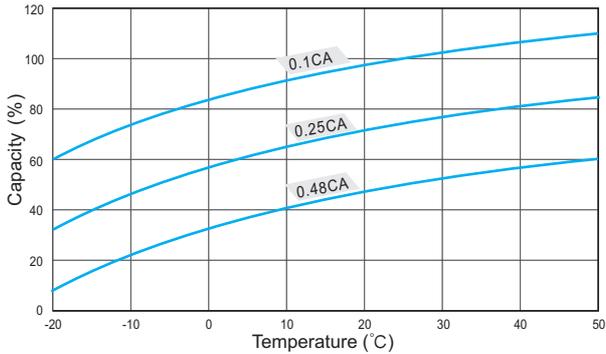
Cycle Life in Relation to Depth of Discharge



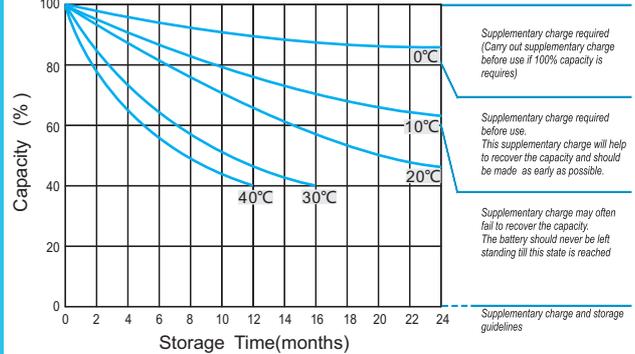
Relationship Between Charging Voltage and Temperature



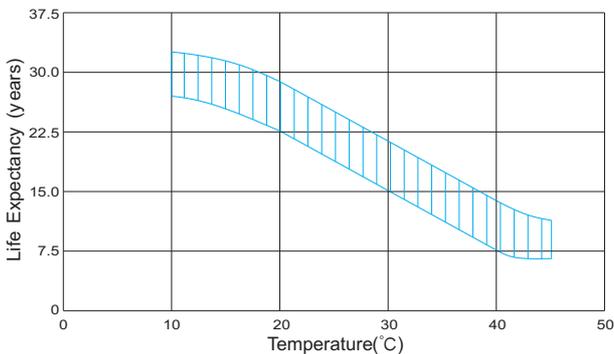
Temperature Effects on Capacity



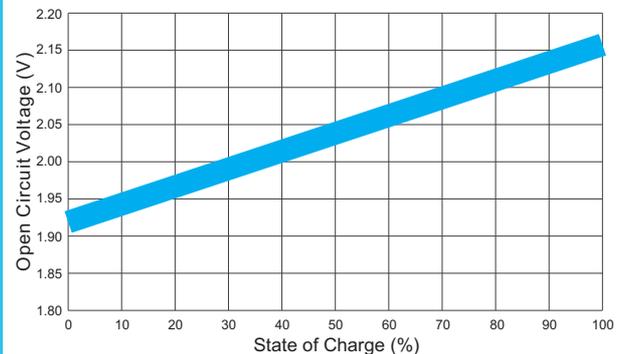
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-600(2V600Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

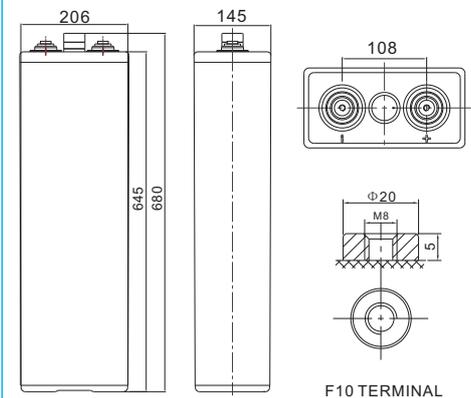


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	600Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 42.0Kg (Tolerance ± 5%)
Internal Resistance	≤0.65 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	2500A (5 sec)
Design Life	25 years
Max. Charging Current	120.0 A
Reference Capacity	C ₃ 450.0Ah C ₅ 510.0Ah C ₁₀ 600.0Ah C ₂₀ 642.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C./Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C./Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	145±2mm (5.71 inches)
Width	206±2mm (8.11 inches)
Height	645±2mm (25.4 inches)
Total Height	680±2mm (26.8 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	326.0	212.3	161.4	128.4	108.6	75.0	63.0	33.1	28.4	15.0	10.5	7.88
1.65V	320.8	209.3	159.6	127.0	107.4	74.4	62.4	32.8	28.1	14.8	10.3	7.80
1.70V	312.8	205.8	156.6	124.7	105.6	73.2	61.8	32.4	27.8	14.7	10.2	7.73
1.75V	299.5	200.5	153.6	122.9	104.4	72.6	61.2	32.1	27.5	14.5	10.1	7.65
1.80V	288.0	194.0	150.0	120.0	102.0	71.4	60.0	31.5	27.0	14.3	9.92	7.50
1.85V	257.5	177.0	138.0	111.0	94.8	66.6	56.4	29.6	25.4	13.4	9.32	7.05

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	567.6	390.3	307.7	246.6	209.7	146.2	123.2	65.3	55.4	29.3	20.5	15.4
1.65V	563.7	386.9	305.4	244.8	208.0	145.4	122.4	64.7	55.1	29.1	20.2	15.3
1.70V	554.6	382.3	300.8	241.3	205.3	143.5	121.5	64.2	54.7	28.9	20.1	15.2
1.75V	535.9	374.4	296.2	238.6	203.6	142.7	120.6	63.6	54.3	28.6	19.9	15.1
1.80V	520.0	364.2	290.4	233.9	199.6	140.7	118.5	62.5	53.3	28.2	19.6	14.8
1.85V	469.0	333.8	268.2	217.1	186.1	131.7	111.7	58.8	50.3	26.5	18.5	14.0

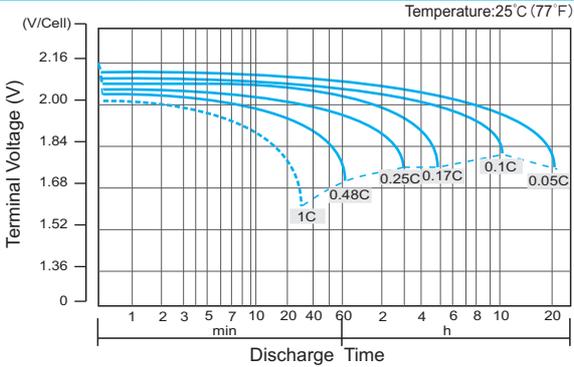
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

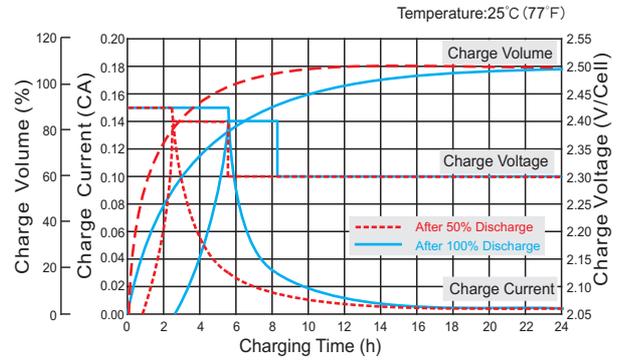
OPzV2-600(2V600Ah)



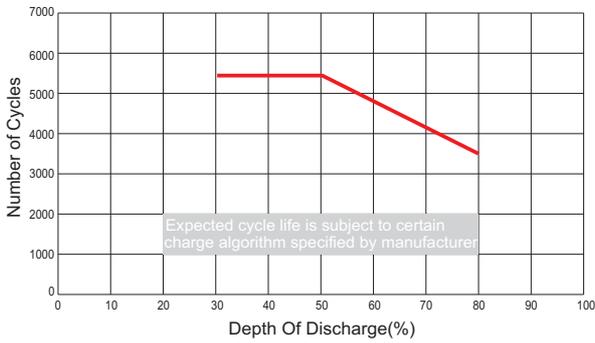
Discharge Characteristics Curve



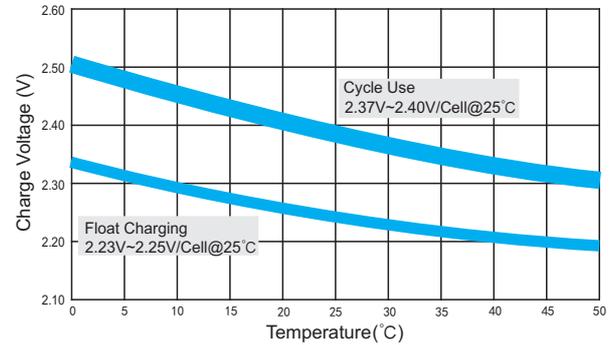
Charge Characteristic Curve for Cycle Use(IUU)



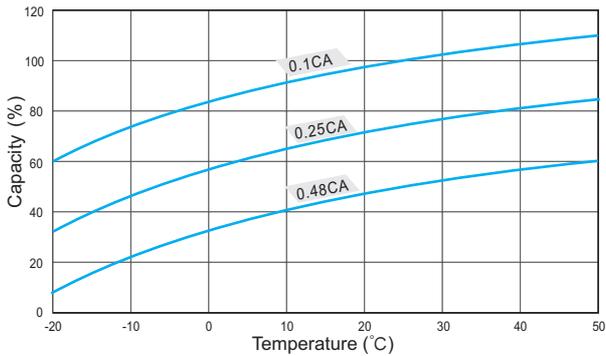
Cycle Life in Relation to Depth of Discharge



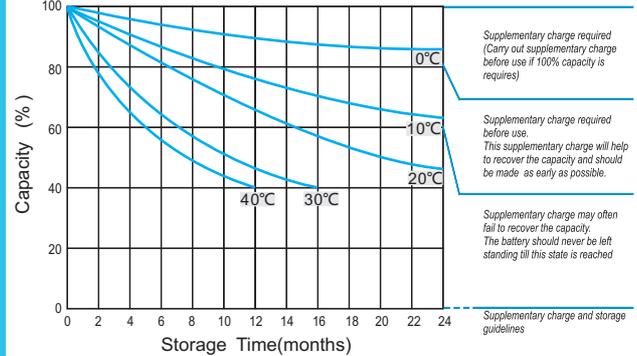
Relationship Between Charging Voltage and Temperature



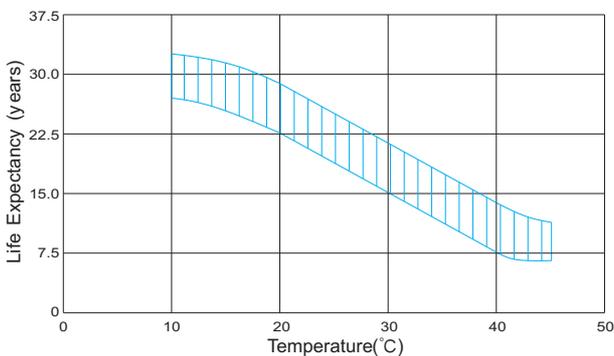
Temperature Effects on Capacity



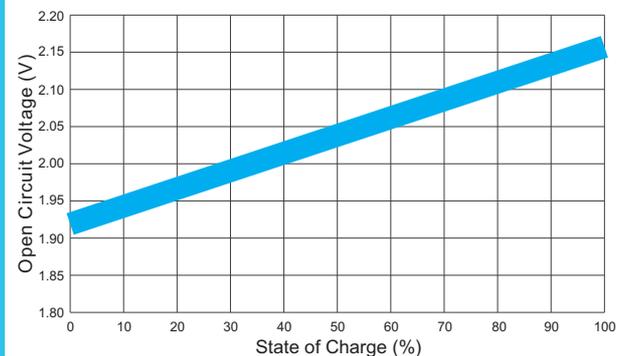
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-350(2V350Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

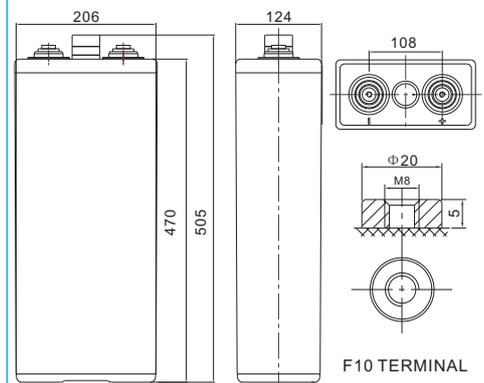


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	350Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 27.0Kg (Tolerance ± 5%)
Internal Resistance	≤0.80 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1500A (5 sec)
Design Life	25 years
Max. Charging Current	70.0 A
Reference Capacity	C ₃ 262.5Ah C ₅ 297.5Ah C ₁₀ 350.0Ah C ₂₀ 374.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	124±2mm (4.88 inches)
Width	206±2mm (8.11 inches)
Height	470±2mm (18.5 inches)
Total Height	505±2mm (19.9 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	190.2	123.8	94.2	74.9	63.4	43.8	36.8	19.3	16.5	8.73	6.13	4.59
1.65V	187.2	122.1	93.1	74.1	62.7	43.4	36.4	19.1	16.4	8.65	6.02	4.55
1.70V	182.4	120.1	91.4	72.8	61.6	42.7	36.1	18.9	16.2	8.56	5.96	4.51
1.75V	174.7	117.0	89.6	71.7	60.9	42.4	35.7	18.7	16.1	8.48	5.90	4.46
1.80V	168.0	113.2	87.5	70.0	59.5	41.7	35.0	18.4	15.8	8.31	5.78	4.38
1.85V	150.2	103.2	80.5	64.8	55.3	38.9	32.9	17.3	14.8	7.81	5.44	4.11

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	331.1	227.7	179.5	143.9	122.3	85.3	71.9	38.1	32.3	17.1	12.0	8.98
1.65V	328.8	225.7	178.2	142.8	121.4	84.8	71.4	37.8	32.1	17.0	11.8	8.92
1.70V	323.5	223.0	175.5	140.8	119.7	83.7	70.9	37.4	31.9	16.8	11.7	8.86
1.75V	312.6	218.4	172.8	139.2	118.8	83.2	70.3	37.1	31.7	16.7	11.6	8.79
1.80V	303.3	212.4	169.4	136.4	116.4	82.1	69.1	36.4	31.1	16.4	11.4	8.64
1.85V	273.6	194.7	156.4	126.7	108.6	76.8	65.2	34.3	29.3	15.5	10.8	8.14

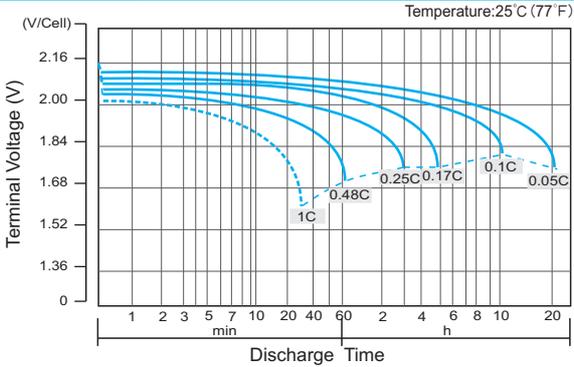
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

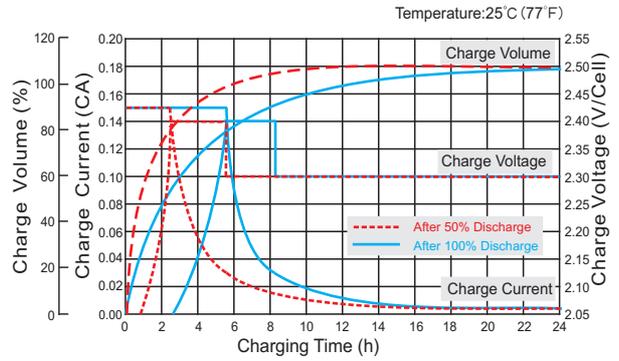
OPzV2-350(2V350Ah)



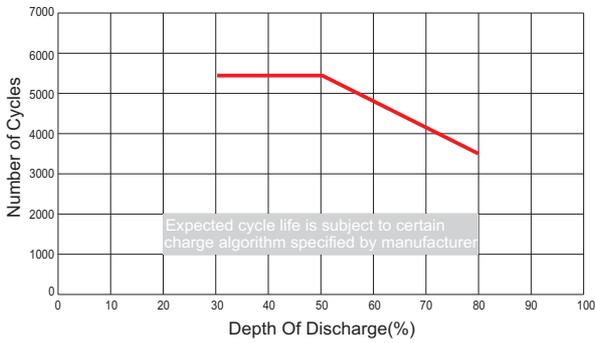
Discharge Characteristics Curve



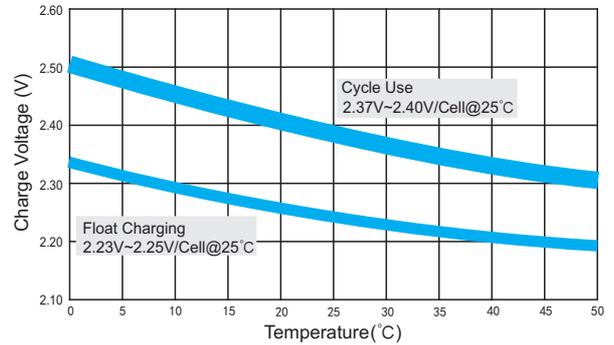
Charge Characteristic Curve for Cycle Use(IUU)



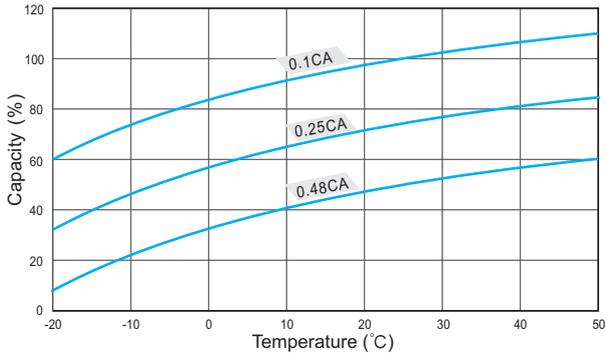
Cycle Life in Relation to Depth of Discharge



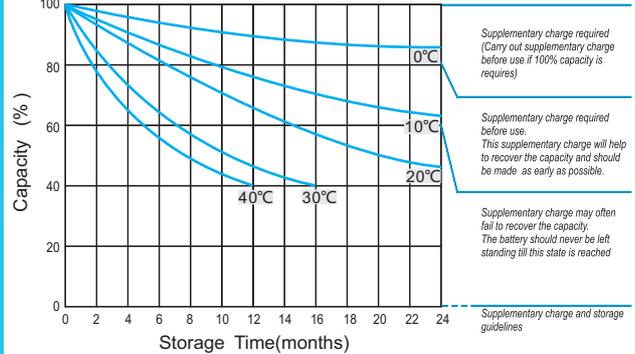
Relationship Between Charging Voltage and Temperature



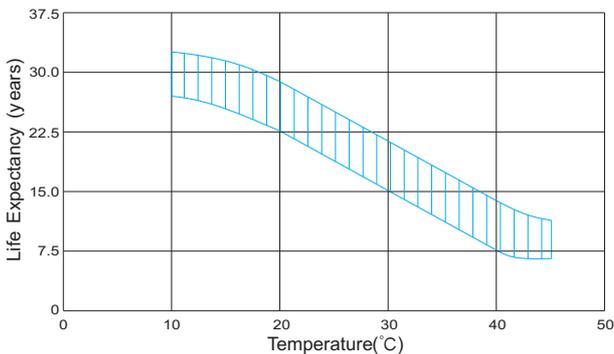
Temperature Effects on Capacity



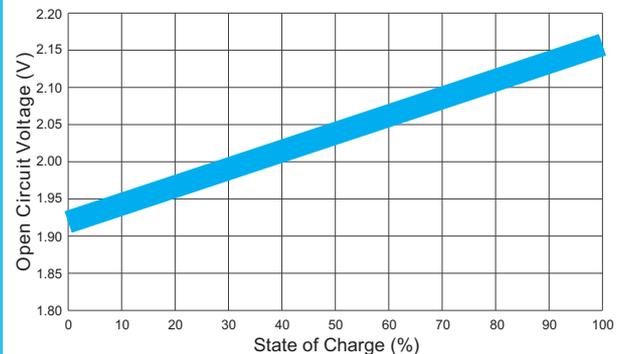
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-300(2V300Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

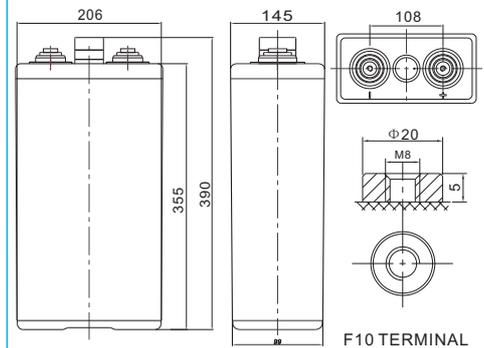


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	300Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 23.5Kg (Tolerance ± 5%)
Internal Resistance	≤0.85 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1350A (5 sec)
Design Life	25 years
Max. Charging Current	60.0 A
Reference Capacity	C ₃ 225.0Ah C ₅ 255.0Ah C ₁₀ 300.0Ah C ₂₀ 322.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	145±2mm (5.71 inches)
Width	206±2mm (8.11 inches)
Height	355±2mm (14.0 inches)
Total Height	390±2mm (15.4 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	163.0	106.1	80.7	64.2	54.3	37.5	31.5	16.5	14.2	7.48	5.25	3.94
1.65V	160.4	104.7	79.8	63.5	53.7	37.2	31.2	16.4	14.0	7.41	5.16	3.90
1.70V	156.4	102.9	78.3	62.4	52.8	36.6	30.9	16.2	13.9	7.34	5.11	3.86
1.75V	149.8	100.3	76.8	61.4	52.2	36.3	30.6	16.1	13.8	7.27	5.06	3.83
1.80V	144.0	97.0	75.0	60.0	51.0	35.7	30.0	15.8	13.5	7.13	4.96	3.75
1.85V	128.7	88.5	69.0	55.5	47.4	33.3	28.2	14.8	12.7	6.70	4.66	3.53

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	283.8	195.2	153.8	123.3	104.8	73.1	61.6	32.6	27.7	14.6	10.3	7.70
1.65V	281.9	193.4	152.7	122.4	104.0	72.7	61.2	32.4	27.5	14.5	10.1	7.65
1.70V	277.3	191.2	150.4	120.7	102.6	71.7	60.7	32.1	27.3	14.4	10.0	7.59
1.75V	268.0	187.2	148.1	119.3	101.8	71.4	60.3	31.8	27.1	14.3	10.0	7.54
1.80V	260.0	182.1	145.2	116.9	99.8	70.4	59.3	31.2	26.7	14.1	9.80	7.41
1.85V	234.5	166.9	134.1	108.6	93.1	65.8	55.8	29.4	25.1	13.3	9.23	6.98

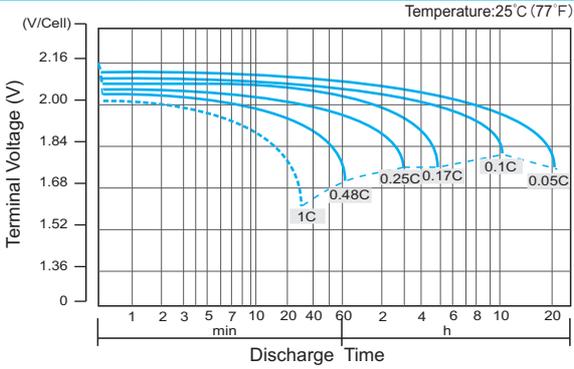
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

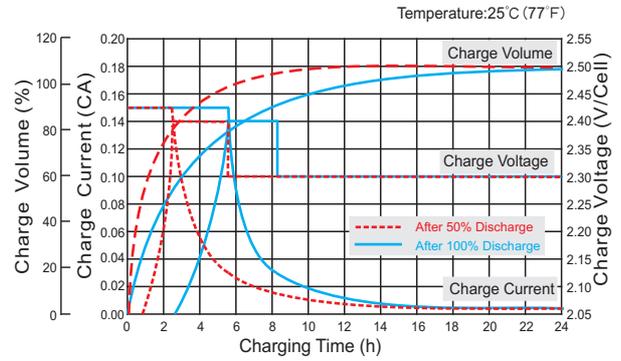
OPzV2-300(2V300Ah)



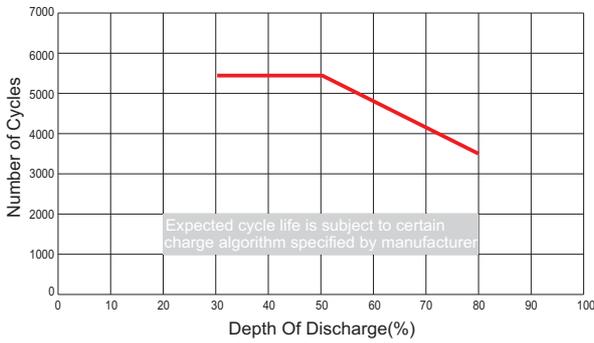
Discharge Characteristics Curve



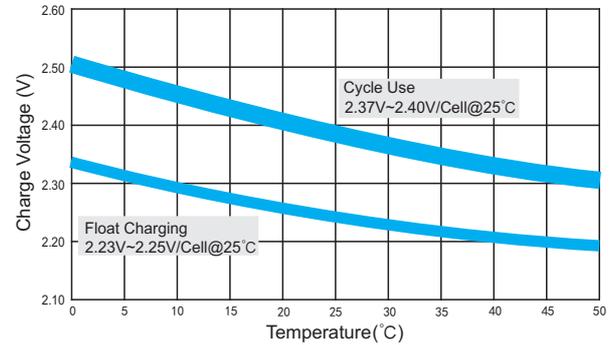
Charge Characteristic Curve for Cycle Use(IUU)



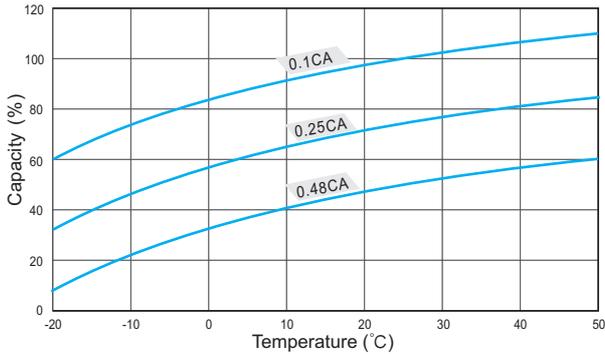
Cycle Life in Relation to Depth of Discharge



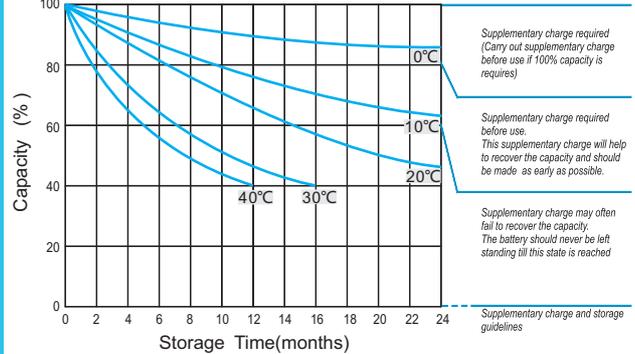
Relationship Between Charging Voltage and Temperature



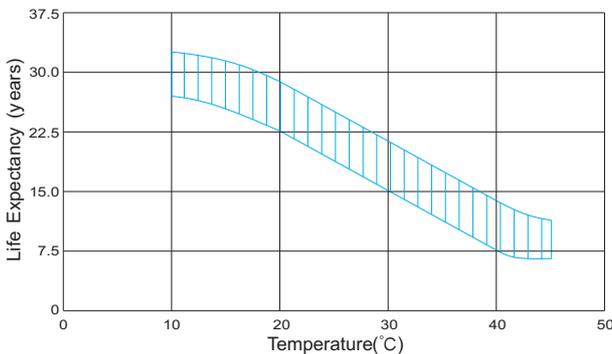
Temperature Effects on Capacity



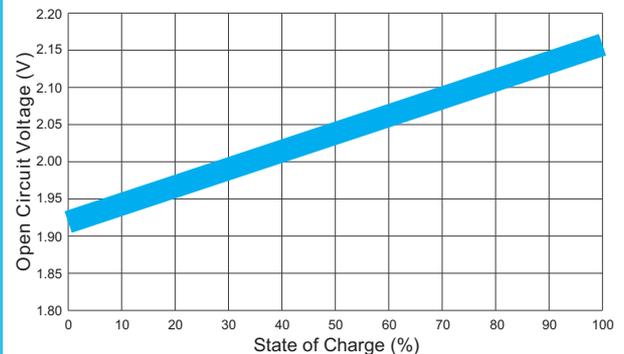
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-250(2V250Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

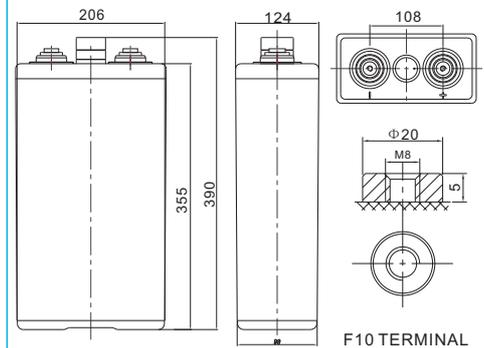


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	250Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 19.5Kg (Tolerance±5%)
Internal Resistance	≤0.9 mΩ(Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1200A (5 sec)
Design Life	25 years
Max. Charging Current	50.0 A
Reference Capacity	C ₃ 187.5Ah C ₅ 212.5Ah C ₁₀ 250.0Ah C ₂₀ 268.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	124±2mm (4.88 inches)
Width	206±2mm (8.11 inches)
Height	355±2mm (14.0 inches)
Total Height	390±2mm (15.4 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	135.8	88.4	67.3	53.5	45.3	31.3	26.3	13.8	11.8	6.23	4.38	3.28
1.65V	133.7	87.2	66.5	52.9	44.8	31.0	26.0	13.7	11.7	6.18	4.30	3.25
1.70V	130.3	85.8	65.3	52.0	44.0	30.5	25.8	13.5	11.6	6.12	4.26	3.22
1.75V	124.8	83.5	64.0	51.2	43.5	30.3	25.5	13.4	11.5	6.06	4.21	3.19
1.80V	120.0	80.9	62.5	50.0	42.5	29.8	25.0	13.1	11.3	5.94	4.13	3.13
1.85V	107.3	73.7	57.5	46.3	39.5	27.8	23.5	12.3	10.6	5.58	3.88	2.94

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	236.5	162.6	128.2	102.8	87.4	60.9	51.3	27.2	23.1	12.2	8.56	6.42
1.65V	234.9	161.2	127.3	102.0	86.7	60.6	51.0	27.0	22.9	12.1	8.43	6.37
1.70V	231.1	159.3	125.3	100.6	85.5	59.8	50.6	26.7	22.8	12.0	8.37	6.33
1.75V	223.3	156.0	123.4	99.4	84.8	59.5	50.2	26.5	22.6	11.9	8.31	6.28
1.80V	216.7	151.7	121.0	97.4	83.2	58.6	49.4	26.0	22.2	11.7	8.16	6.17
1.85V	195.4	139.1	111.7	90.5	77.6	54.9	46.5	24.5	20.9	11.1	7.69	5.82

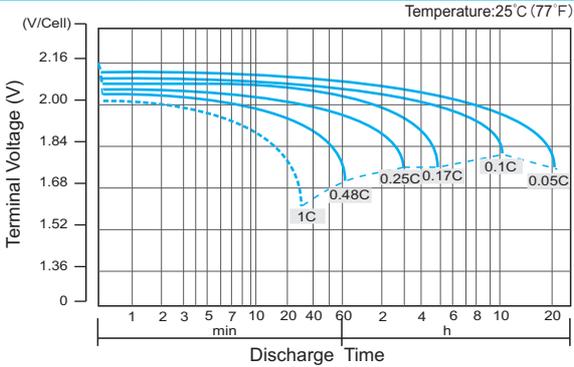
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

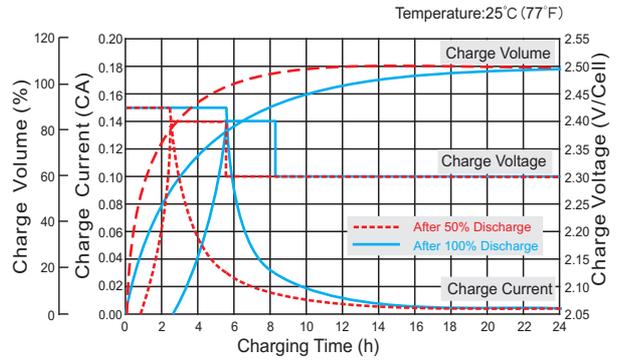
OPzV2-250(2V250Ah)



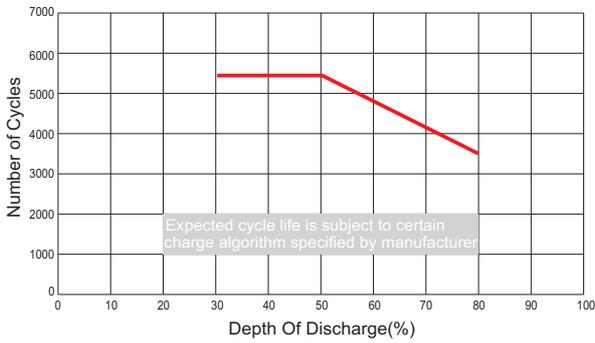
Discharge Characteristics Curve



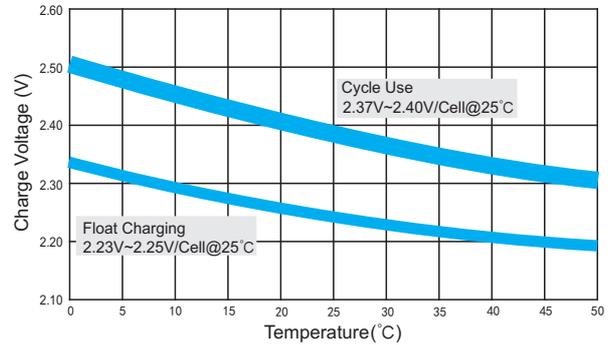
Charge Characteristic Curve for Cycle Use(IUU)



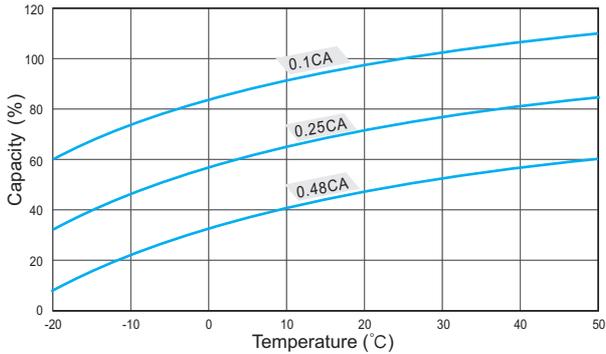
Cycle Life in Relation to Depth of Discharge



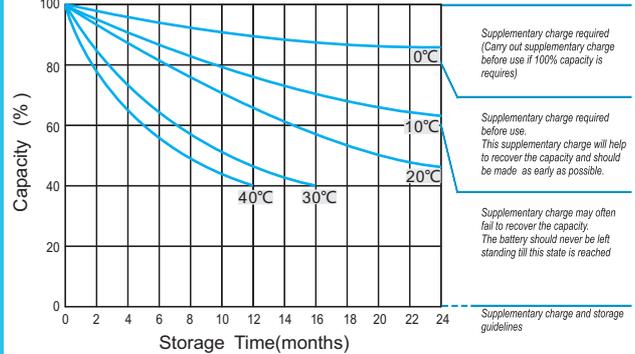
Relationship Between Charging Voltage and Temperature



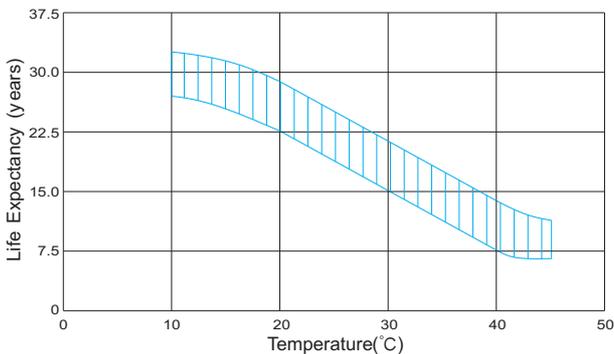
Temperature Effects on Capacity



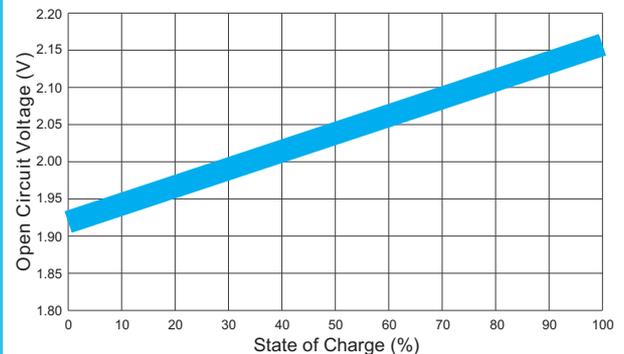
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-2000(2V2000Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

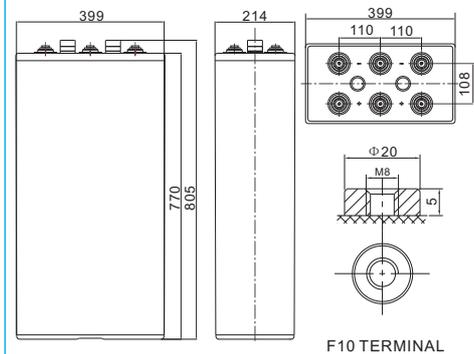


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	2000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 140.0Kg (Tolerance ±5%)
Internal Resistance	≤0.44 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	25 years
Max. Charging Current	400.0 A
Reference Capacity	C ₃ 1500.0Ah C ₅ 1700.0Ah C ₁₀ 2000.0Ah C ₂₀ 2142.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 2% at 20°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	399±2mm (15.7 inches)
Width	214±2mm (8.43 inches)
Height	770±2mm (30.3 inches)
Total Height	805±2mm (31.7 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	1087	707.6	538.0	428.0	362.0	250.0	210.0	110.3	94.5	49.9	35.0	26.3
1.65V	1069	697.8	532.0	423.3	358.0	248.0	208.0	109.2	93.6	49.4	34.4	26.0
1.70V	1043	686.0	522.0	415.8	352.0	244.0	206.0	108.2	92.7	48.9	34.0	25.8
1.75V	998.4	668.4	512.0	409.5	348.0	242.0	204.0	107.1	91.8	48.5	33.7	25.5
1.80V	960.0	646.8	500.0	400.0	340.0	238.0	200.0	105.0	90.0	47.5	33.1	25.0
1.85V	858.2	590.0	460.0	370.0	316.0	222.0	188.0	98.7	84.6	44.7	31.1	23.5

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	1892	1301	1026	822.1	698.8	487.3	410.7	217.5	184.8	97.5	68.5	51.3
1.65V	1879	1290	1018	815.9	693.5	484.7	407.8	215.7	183.5	96.9	67.4	51.0
1.70V	1849	1274	1003	804.4	684.2	478.3	404.9	213.9	182.2	96.2	66.9	50.6
1.75V	1786	1248	987.3	795.2	678.7	475.7	402.0	212.1	180.9	95.5	66.4	50.2
1.80V	1733	1214	967.9	779.6	665.4	469.2	395.1	208.3	177.8	93.8	65.3	49.4
1.85V	1563	1113	893.9	723.7	620.5	438.8	372.3	196.0	167.5	88.4	61.5	46.5

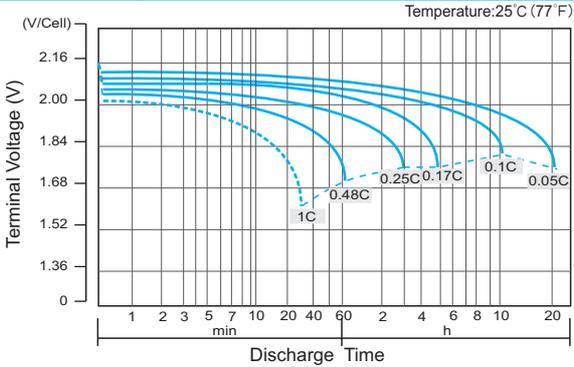
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

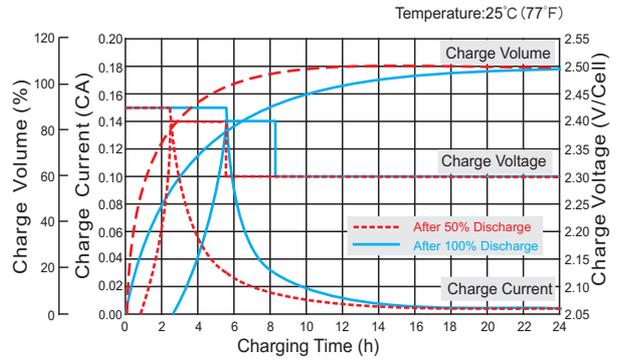
OPzV2-2000(2V2000Ah)



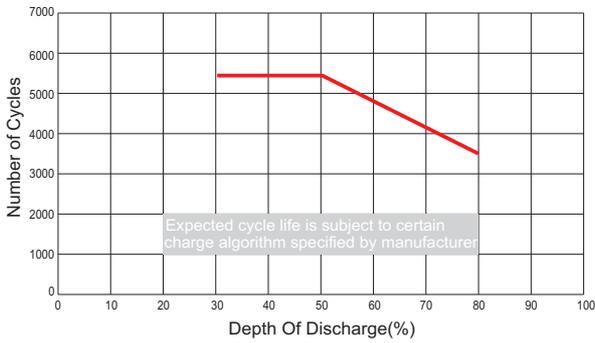
Discharge Characteristics Curve



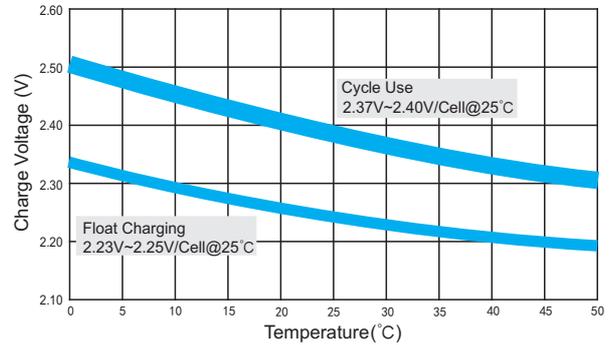
Charge Characteristic Curve for Cycle Use(IUU)



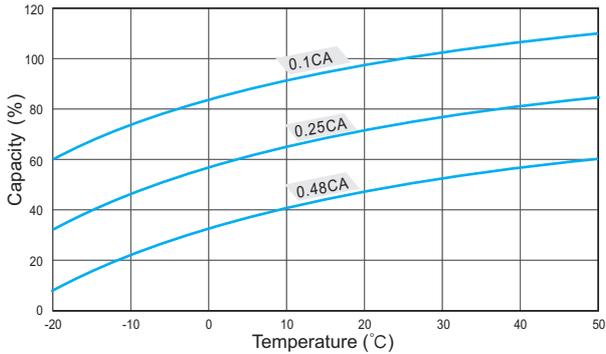
Cycle Life in Relation to Depth of Discharge



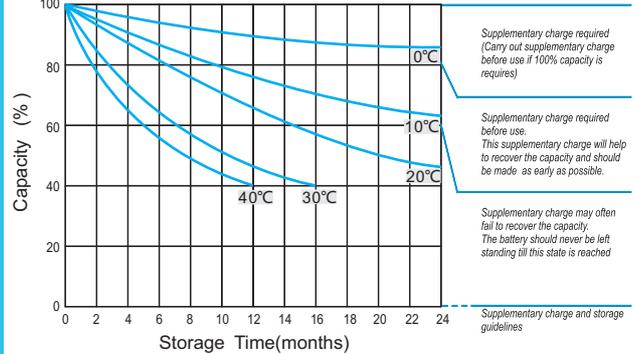
Relationship Between Charging Voltage and Temperature



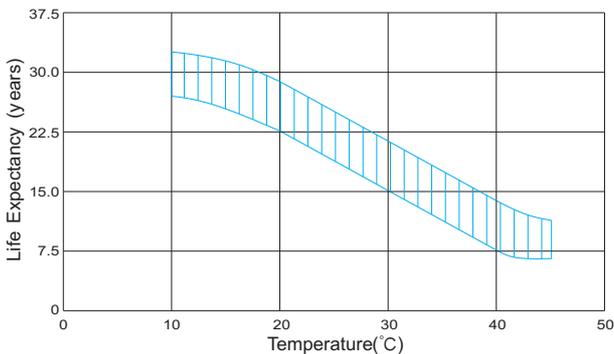
Temperature Effects on Capacity



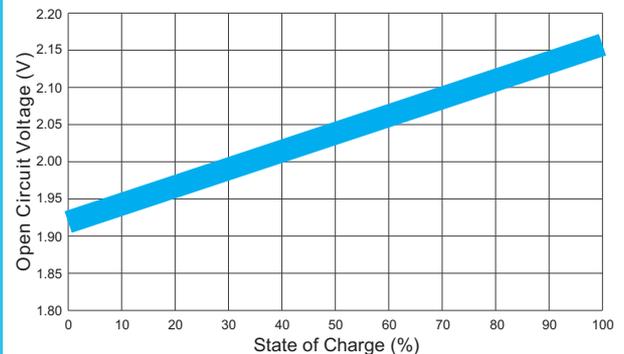
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-200(2V200Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

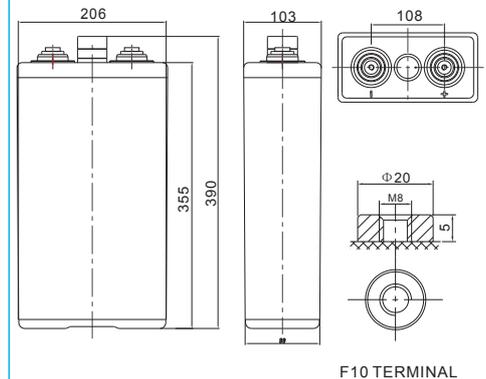


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	200Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 16.0Kg (Tolerance±5%)
Internal Resistance	≤1.3 mΩ(Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	25 years
Max. Charging Current	40.0 A
Reference Capacity	C ₃ 150.0Ah C ₅ 170.0Ah C ₁₀ 200.0Ah C ₂₀ 214.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	103±2mm (4.06 inches)
Width	206±2mm (8.11 inches)
Height	355±2mm (14.0 inches)
Total Height	390±2mm (15.4 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	108.7	70.8	53.8	42.8	36.2	25.0	21.0	11.0	9.45	4.99	3.50	2.63
1.65V	106.9	69.8	53.2	42.3	35.8	24.8	20.8	10.9	9.36	4.94	3.44	2.60
1.70V	104.3	68.6	52.2	41.6	35.2	24.4	20.6	10.8	9.27	4.89	3.40	2.58
1.75V	99.8	66.8	51.2	41.0	34.8	24.2	20.4	10.7	9.18	4.85	3.37	2.55
1.80V	96.0	64.7	50.0	40.0	34.0	23.8	20.0	10.5	9.00	4.75	3.31	2.50
1.85V	85.8	59.0	46.0	37.0	31.6	22.2	18.8	9.87	8.46	4.47	3.11	2.35

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	189.2	130.1	102.6	82.2	69.9	48.7	41.1	21.8	18.5	9.75	6.85	5.13
1.65V	187.9	129.0	101.8	81.6	69.3	48.5	40.8	21.6	18.4	9.69	6.74	5.10
1.70V	184.9	127.4	100.3	80.4	68.4	47.8	40.5	21.4	18.2	9.62	6.69	5.06
1.75V	178.6	124.8	98.7	79.5	67.9	47.6	40.2	21.2	18.1	9.55	6.64	5.02
1.80V	173.3	121.4	96.8	78.0	66.5	46.9	39.5	20.8	17.8	9.38	6.53	4.94
1.85V	156.3	111.3	89.4	72.4	62.0	43.9	37.2	19.6	16.8	8.84	6.15	4.65

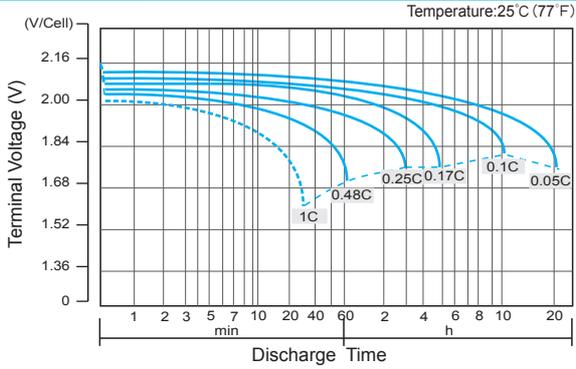
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

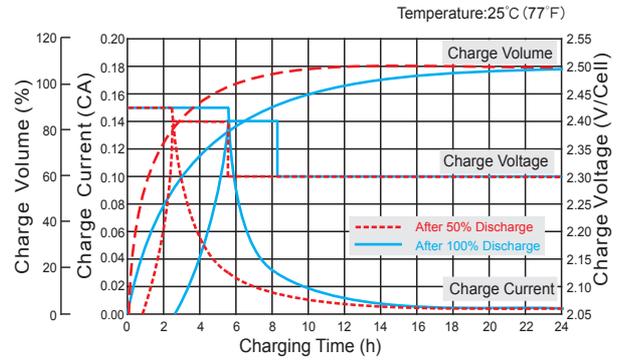
OPzV2-200(2V200Ah)



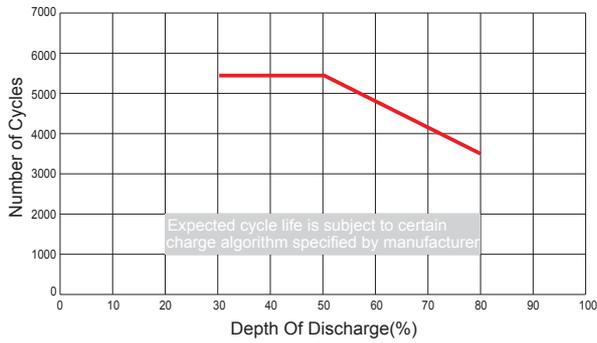
Discharge Characteristics Curve



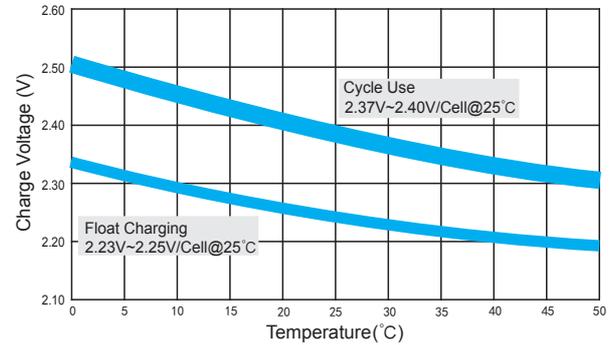
Charge Characteristic Curve for Cycle Use(IUU)



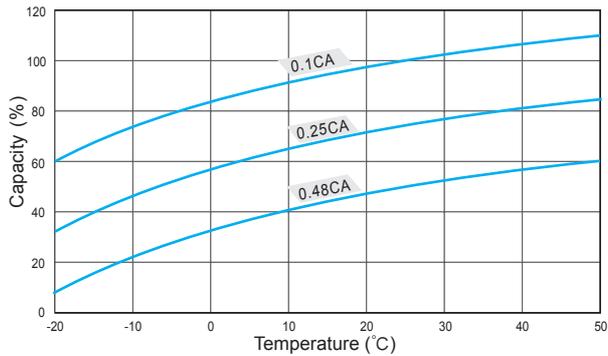
Cycle Life in Relation to Depth of Discharge



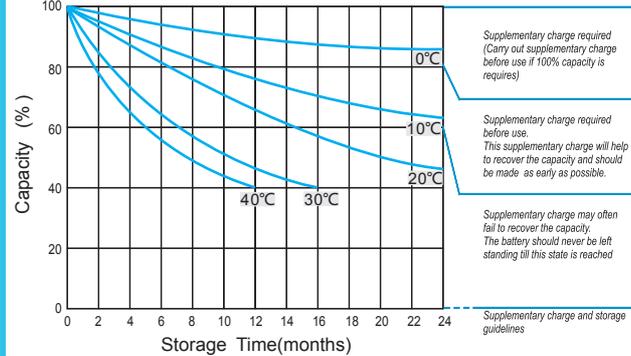
Relationship Between Charging Voltage and Temperature



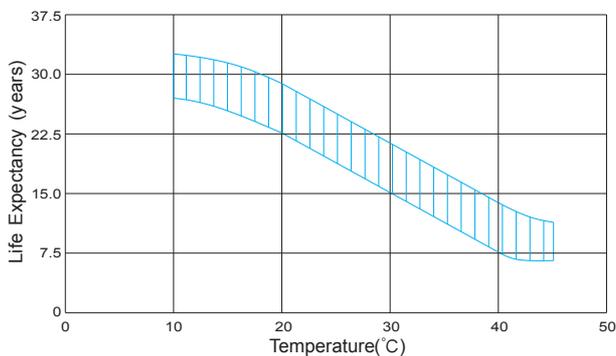
Temperature Effects on Capacity



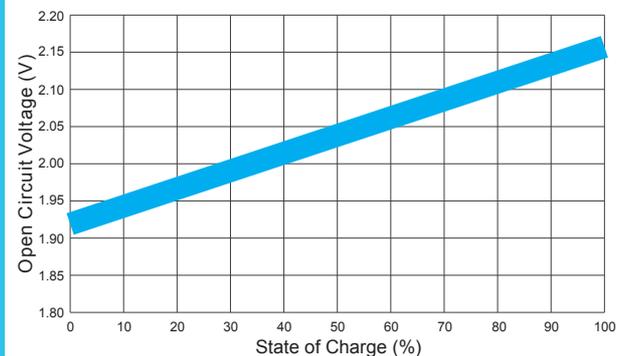
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-1500(2V1500Ah)



MJB

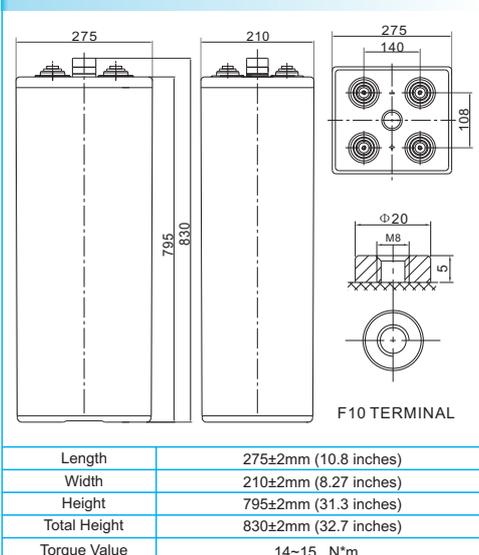
OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.



Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	1500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 102.0Kg (Tolerance ±5%)
Internal Resistance	≤0.45 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	4500A (5 sec)
Design Life	25 years
Max. Charging Current	300.0 A
Reference Capacity	C ₃ 1125.0Ah C ₅ 1275.0Ah C ₁₀ 1500.0Ah C ₂₀ 1606.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 2% at 20°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	815.0	530.7	403.5	321.0	271.5	187.5	157.5	82.7	70.9	37.4	26.3	19.7
1.65V	802.1	523.3	399.0	317.4	268.5	186.0	156.0	81.9	70.2	37.1	25.8	19.5
1.70V	781.9	514.5	391.5	311.8	264.0	183.0	154.5	81.1	69.5	36.7	25.5	19.3
1.75V	748.8	501.3	384.0	307.1	261.0	181.5	153.0	80.3	68.9	36.3	25.3	19.1
1.80V	720.0	485.1	375.0	300.0	255.0	178.5	150.0	78.8	67.5	35.6	24.8	18.8
1.85V	643.7	442.5	345.0	277.5	237.0	166.5	141.0	74.0	63.5	33.5	23.3	17.6

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

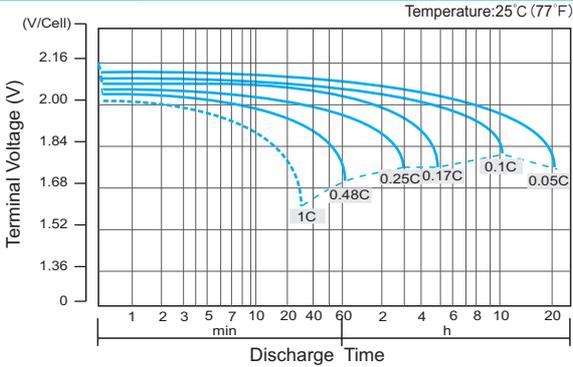
F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	1419	975.8	769.1	616.6	524.1	365.5	308.0	163.1	138.6	73.2	51.3	38.5
1.65V	1409	967.2	763.5	612.0	520.1	363.6	305.9	161.8	137.6	72.6	50.6	38.2
1.70V	1386	955.8	752.1	603.3	513.1	358.7	303.7	160.5	136.7	72.1	50.2	38.0
1.75V	1340	936.0	740.5	596.4	509.0	356.8	301.5	159.1	135.7	71.6	49.8	37.7
1.80V	1300	910.4	725.9	584.7	499.0	351.9	296.3	156.2	133.3	70.4	49.0	37.0
1.85V	1173	834.6	670.4	542.8	465.4	329.1	279.2	147.0	125.7	66.3	46.2	34.9

(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.

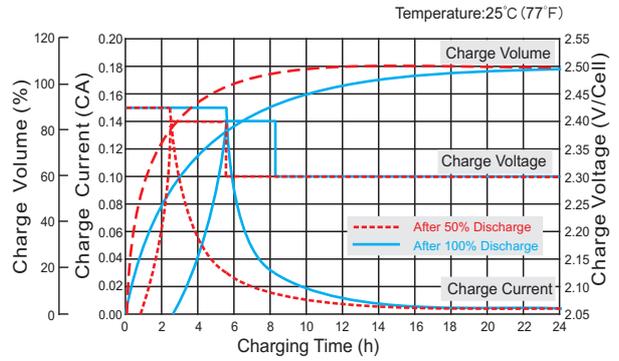
OPzV2-1500(2V1500Ah)



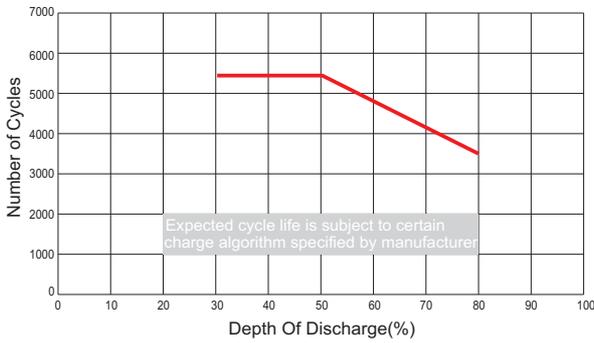
Discharge Characteristics Curve



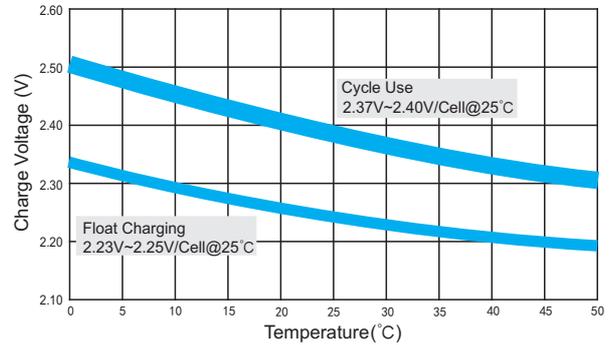
Charge Characteristic Curve for Cycle Use(IUU)



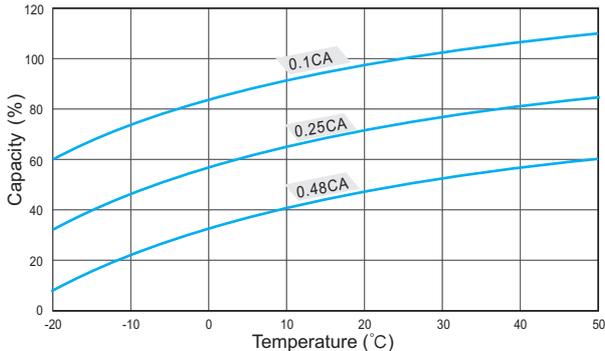
Cycle Life in Relation to Depth of Discharge



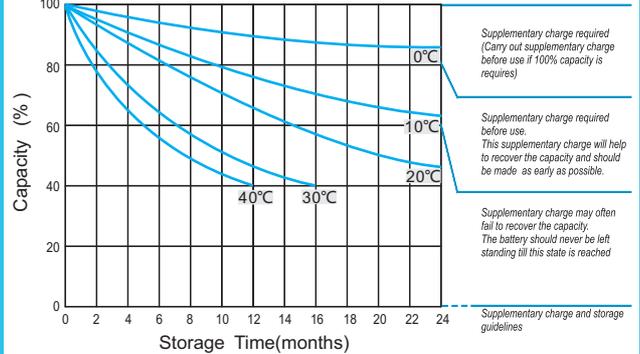
Relationship Between Charging Voltage and Temperature



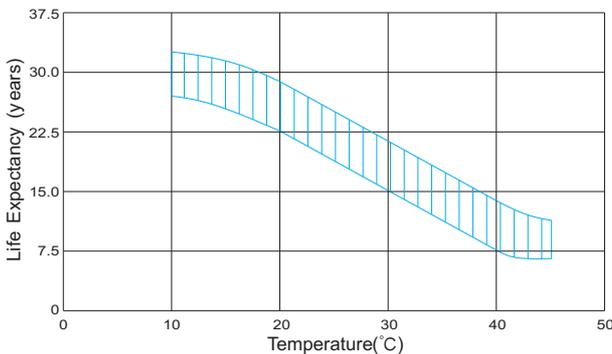
Temperature Effects on Capacity



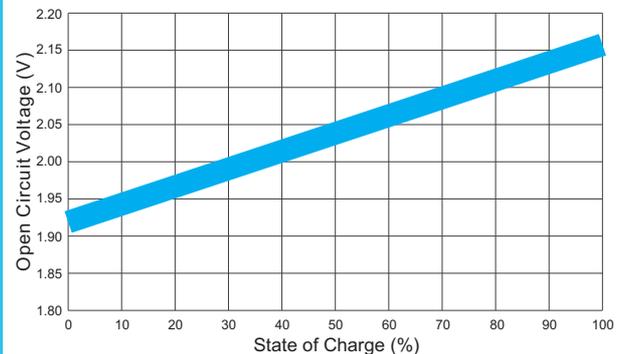
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.

OPzV2-1000(2V1000Ah)



MJB

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 25 years floating design life at 25°C and It is the best solution for cyclic use under extreme operating conditions.

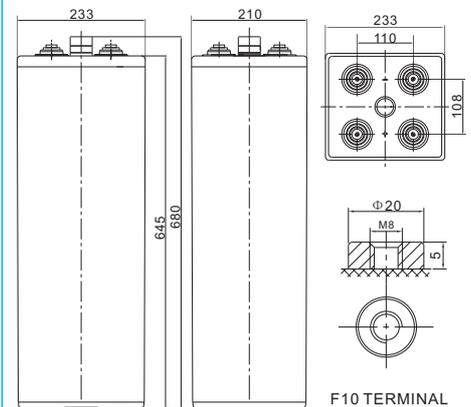


Specification

Cells Per Unit	1
Voltage Per Unit	2V
Nominal Capacity	1000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 70.0Kg (Tolerance±5%)
Internal Resistance	≤0.5 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	3800A (5 sec)
Design Life	25 years
Max. Charging Current	200.0 A
Reference Capacity	C ₃ 750.0Ah C ₅ 850.0Ah C ₁₀ 1000.0Ah C ₂₀ 1072.0Ah
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	233±2mm (9.17 inches)
Width	210±2mm (8.27 inches)
Height	645±2mm (25.4 inches)
Total Height	680±2mm (26.8 inches)
Torque Value	14~15 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	543.4	353.8	269.0	214.0	181.0	125.0	105.0	55.1	47.3	24.9	17.5	13.1
1.65V	534.7	348.9	266.0	211.6	179.0	124.0	104.0	54.6	46.8	24.7	17.2	13.0
1.70V	521.3	343.0	261.0	207.9	176.0	122.0	103.0	54.1	46.4	24.5	17.0	12.9
1.75V	499.2	334.2	256.0	204.8	174.0	121.0	102.0	53.6	45.9	24.2	16.9	12.8
1.80V	480.0	323.4	250.0	200.0	170.0	119.0	100.0	52.5	45.0	23.8	16.5	12.5
1.85V	429.1	295.0	230.0	185.0	158.0	111.0	94.0	49.4	42.3	22.3	15.5	11.8

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

F.V/ Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	24HR	48HR	72HR	100HR
1.60V	945.9	650.5	512.8	411.0	349.4	243.6	205.4	108.8	92.4	48.8	34.2	25.7
1.65V	939.5	644.8	509.0	408.0	346.7	242.4	203.9	107.9	91.8	48.4	33.7	25.5
1.70V	924.3	637.2	501.4	402.2	342.1	239.1	202.5	107.0	91.1	48.1	33.5	25.3
1.75V	893.2	624.0	493.7	397.6	339.4	237.8	201.0	106.1	90.4	47.7	33.2	25.1
1.80V	866.6	606.9	483.9	389.8	332.7	234.6	197.5	104.1	88.9	46.9	32.7	24.7
1.85V	781.7	556.4	446.9	361.9	310.2	219.4	186.2	98.0	83.8	44.2	30.8	23.3

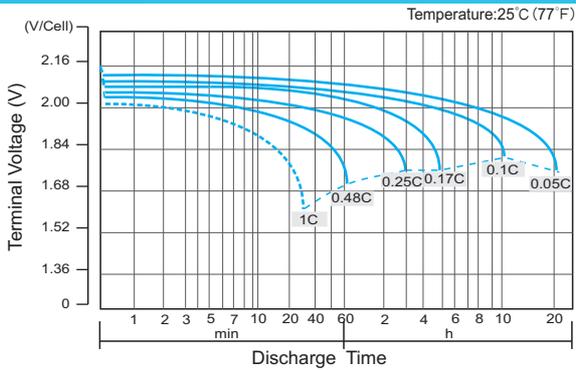
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

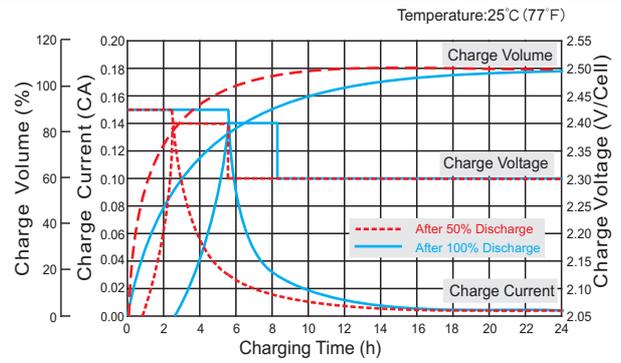
OPzV2-1000(2V1000Ah)



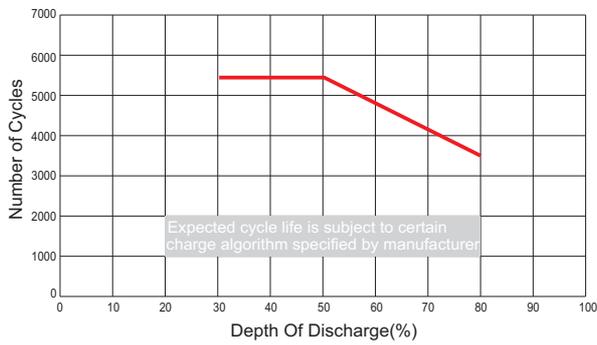
Discharge Characteristics Curve



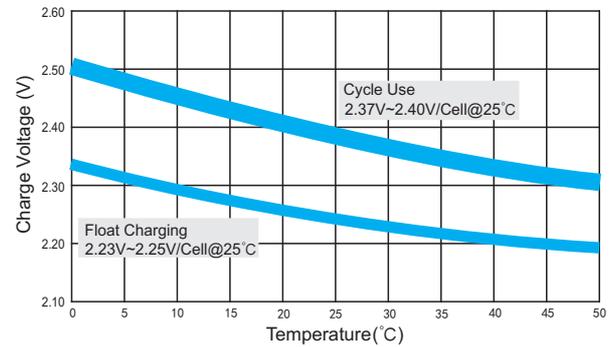
Charge Characteristic Curve for Cycle Use(IUU)



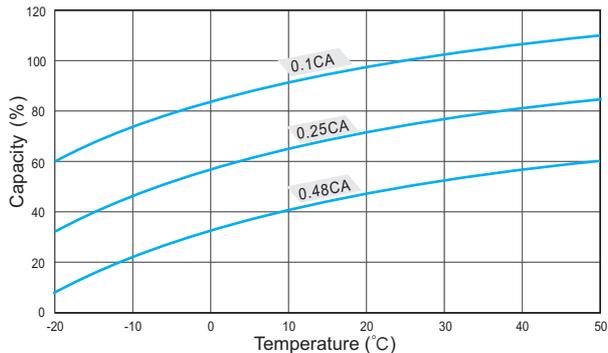
Cycle Life in Relation to Depth of Discharge



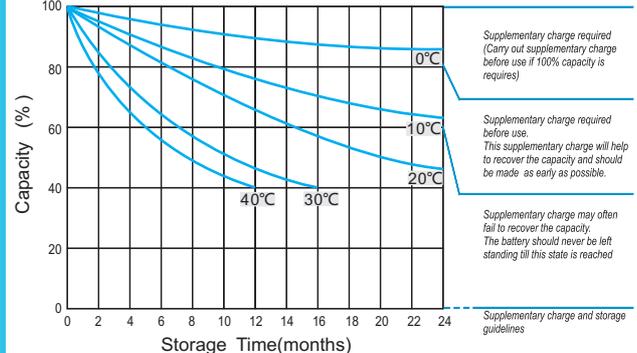
Relationship Between Charging Voltage and Temperature



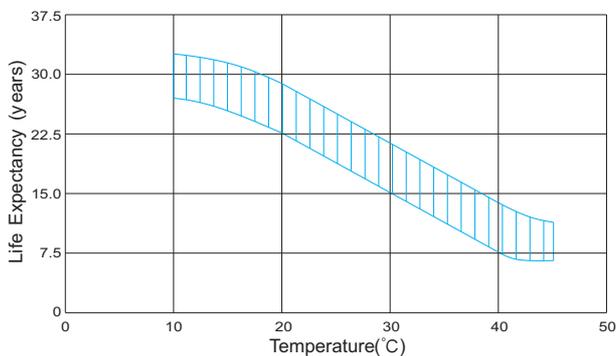
Temperature Effects on Capacity



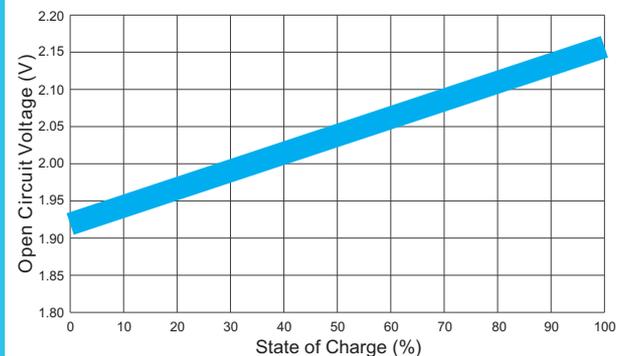
Storage Characteristics



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, MJB reserves the right to explain and update the latest information.