



Model: GW12-38W(12V 9Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

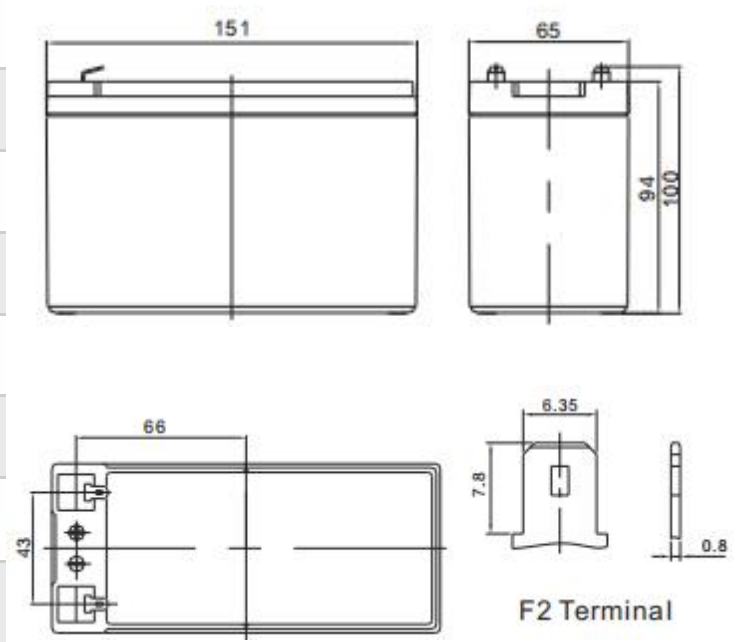
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-38W(12V 9Ah)
Length	151±1mm (5.94 inches)
Width	65±1mm (2.56 inches)
Height	94±1mm (3.70 inches)
Total Height	100±1mm (3.94 inches)
Weight	Approx. 2.70Kg (Tolerance±5%)
Terminal	Default F2
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	8 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

GW12-38W Dimension

Parameters	GW12-38W(12V 9Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	38W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤18.0 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	90A (5 sec)
Max. Charging Current	2.7A
Short Circuit Current	450A
Reference Capacity	C10: 8.5Ah C20: 9.0Ah
Standby Use Voltage	13.70 V~13.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.60 V~14.80 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-38W Imagine

F.V/TIME	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	61.16	43.82	31.19	26.16	18.63	14.82	9.991	5.616	4.019
1.65V	57.51	41.88	30.46	25.68	17.85	14.66	9.840	5.548	3.936
1.70V	55.32	40.82	30.05	25.35	18.39	14.58	9.764	5.480	3.913
1.75V	50.71	38.23	28.84	24.38	17.90	14.18	9.613	5.382	3.807
1.80V	46.01	34.99	26.89	23.00	17.09	13.69	9.386	5.238	3.716
1.85V	40.26	31.83	24.54	21.14	15.88	12.80	8.856	5.003	3.557



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

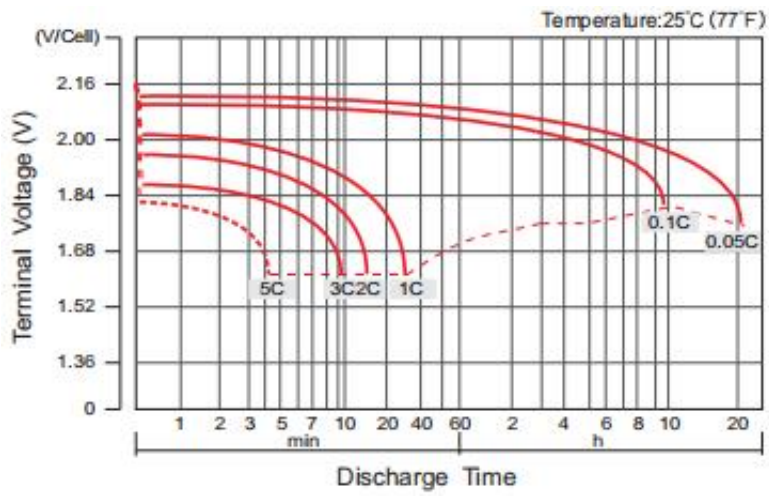
Model: GW12-38W

F.V/TIME	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	104.5	78.30	57.65	48.74	36.02	28.08	18.92	10.62	7.48
1.65V	101.0	76.28	56.70	48.06	38.00	27.81	18.80	10.60	7.43
1.70V	98.55	75.06	55.89	47.66	35.60	27.81	18.80	10.55	7.42
1.75V	92.88	72.63	54.27	46.31	35.05	27.41	18.67	10.48	7.37
1.80V	86.40	68.18	51.71	44.42	33.81	26.60	18.29	10.31	7.27
1.85V	79.11	62.51	47.52	41.18	31.60	25.11	17.41	9.95	7.01

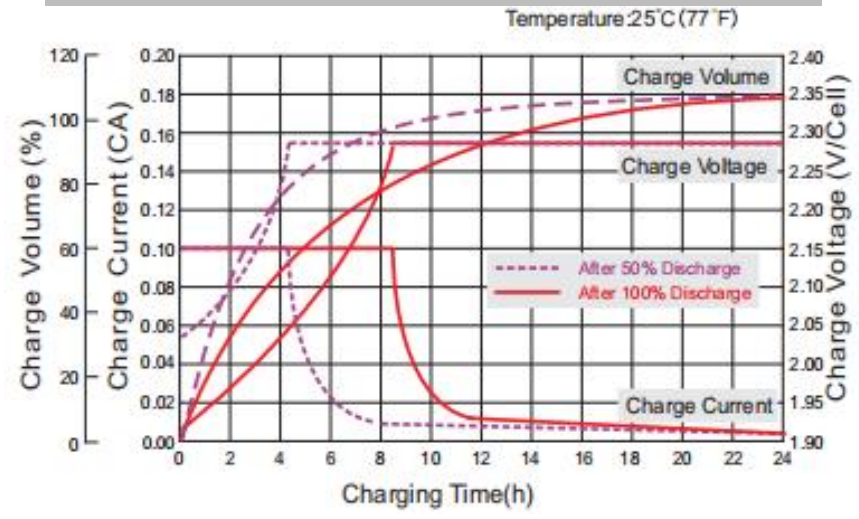


Constant Power Discharge
W/Cell (@ 77°F/25°C)

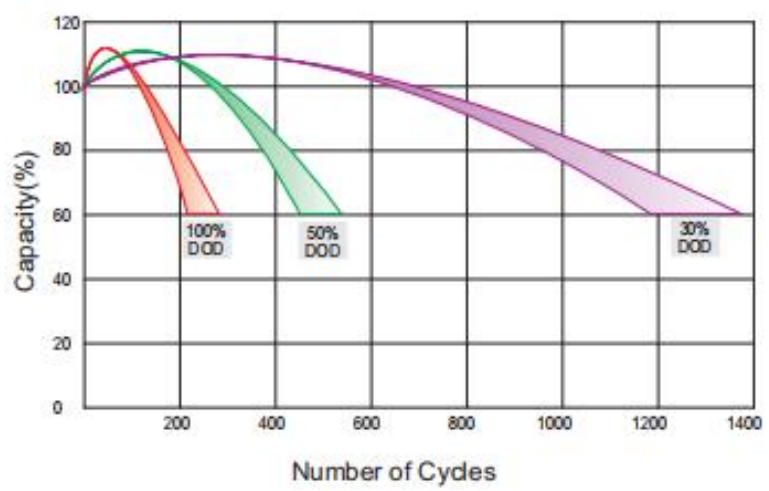
Discharge Characteristics Curve



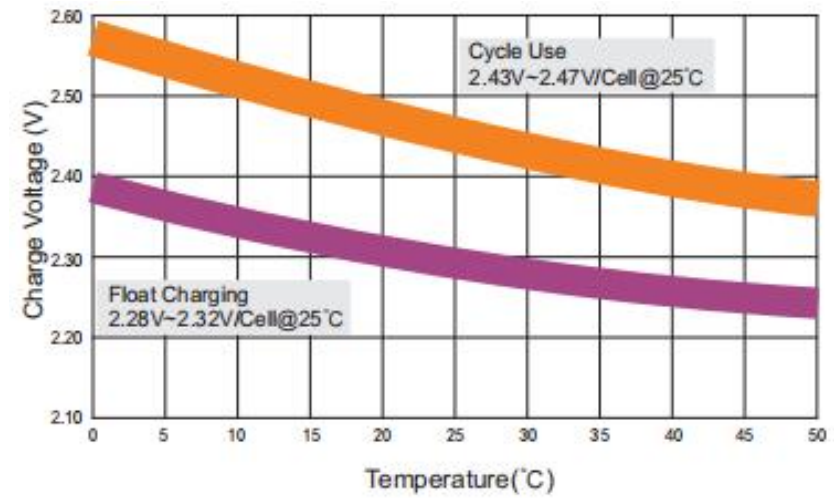
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

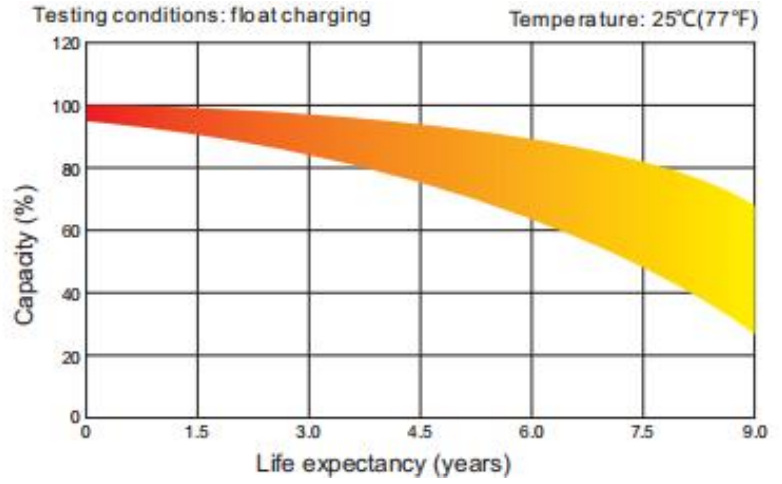


Relationship Between Charging Voltage and Temperature

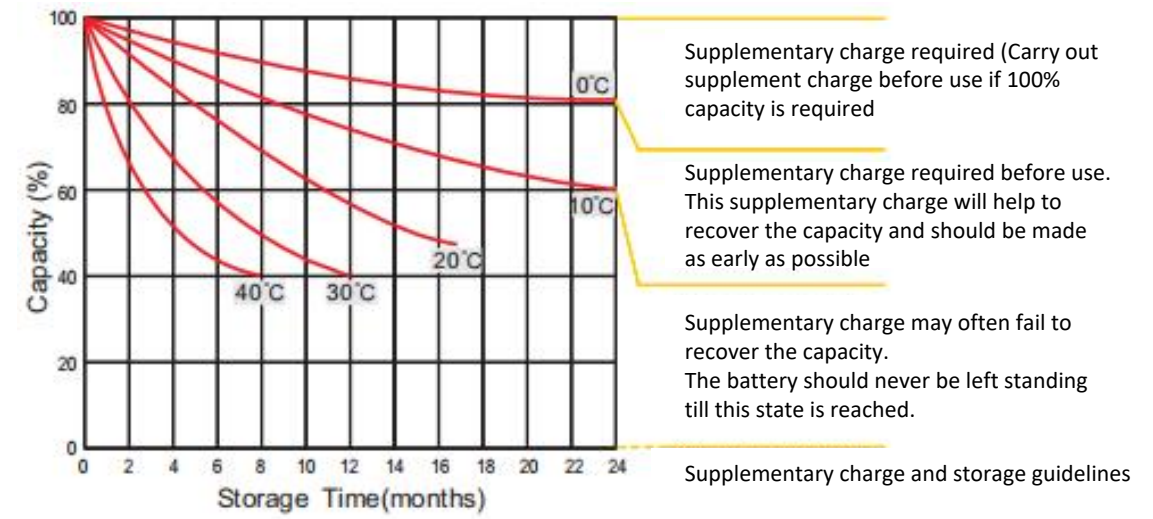


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

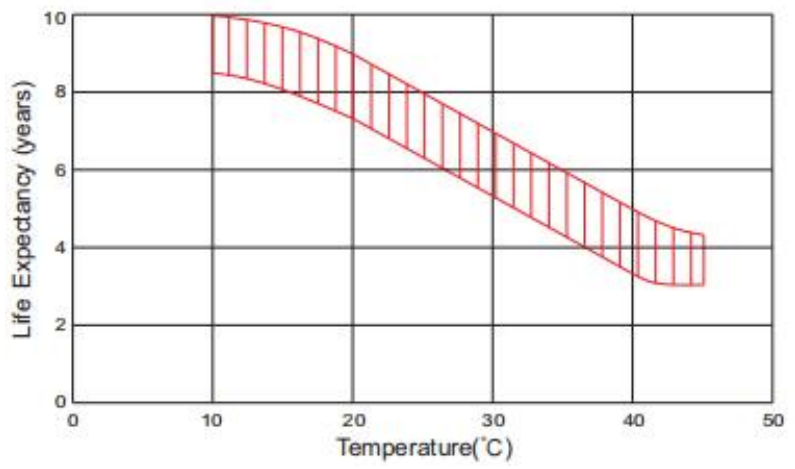
Life Characteristics of Standby Use



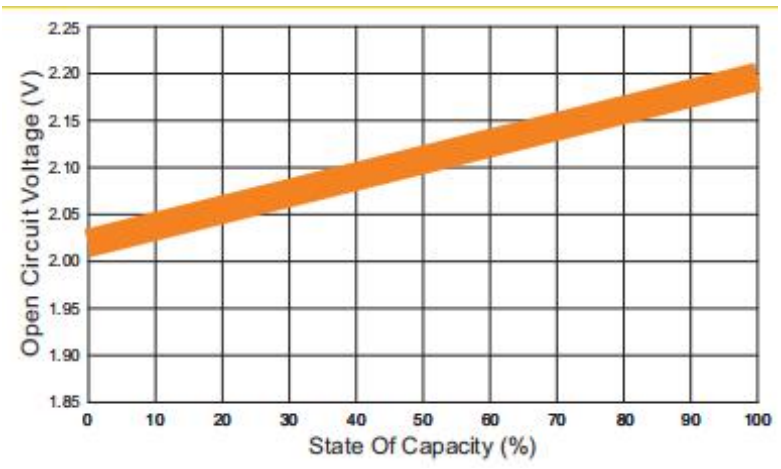
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-96W(12V 24Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

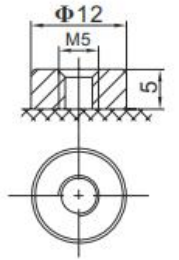
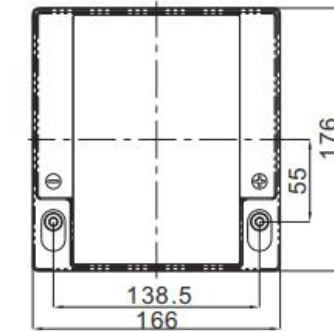
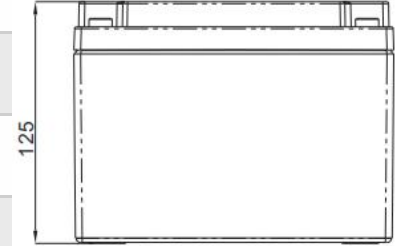
● Laval-Quebec-Canada

● Beirut-Lebanon

● Hongkong-China

● www.connectinglegacy.com

Introduction	GW12-96W(12V 24Ah)
Length	166±1.5mm (6.54 inches)
Width	176±1.5mm (6.93 inches)
Height	125±1.5mm (4.92 inches)
Total Height	125±1.5mm (4.92 inches)
Weight	Approx. 8.10Kg (Tolerance±5%)
Terminal	Default F13-BP(M5), Value: 6~7N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	8 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F13-BP TERMINAL

GW12-96W Dimension

Features	Structure: Compact design of shorter internal connectors among cells for lower I.R.
	Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.
	Separator: Improved AGM separator increases deep cycle life.
	Safety Valve: Flame arrester/filter is equipped with safety valve system.
	Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-96W(12V 24Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	96W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤10.0 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	240A (5 sec)
Max. Charging Current	7.2A
Short Circuit Current	950A
Reference Capacity	C10: 22.6Ah C20: 24.0Ah
Standby Use Voltage	13.70 V~13.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.60 V~14.80 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-96W Imagine

F.V/TIME	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	112.7	99.03	80.89	70.85	55.60	43.70	31.14	17.46	12.38
1.65V	102.2	89.87	73.97	65.31	52.00	41.25	29.50	16.64	11.85
1.70V	97.83	85.99	71.02	62.93	50.40	40.15	28.77	16.28	11.63
1.75V	90.61	79.65	66.17	58.97	47.60	38.15	27.57	15.73	11.27
1.80V	82.99	72.95	61.16	55.01	45.20	36.35	26.37	15.14	10.88
1.85V	70.69	62.38	52.11	46.70	38.76	31.57	23.32	13.69	9.947



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

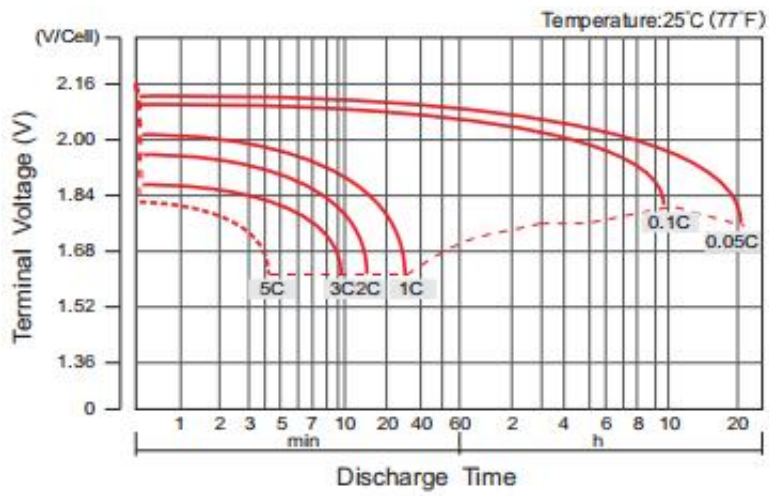
Model: GW12-96W

F.V/TIME	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	202.5	178.0	145.9	128.2	101.6	80.46	57.55	32.74	23.43
1.65V	186.0	163.5	135.2	119.9	96.00	76.78	55.40	31.51	22.64
1.70V	179.6	157.9	130.9	116.4	94.00	75.15	54.11	31.01	22.28
1.75V	168.0	147.7	123.3	110.4	89.60	72.29	52.40	30.15	21.71
1.80V	156.0	137.1	115.3	104.1	85.60	69.43	50.68	29.29	21.13
1.85V	135.5	119.1	99.65	89.45	74.40	60.85	45.09	26.65	19.41

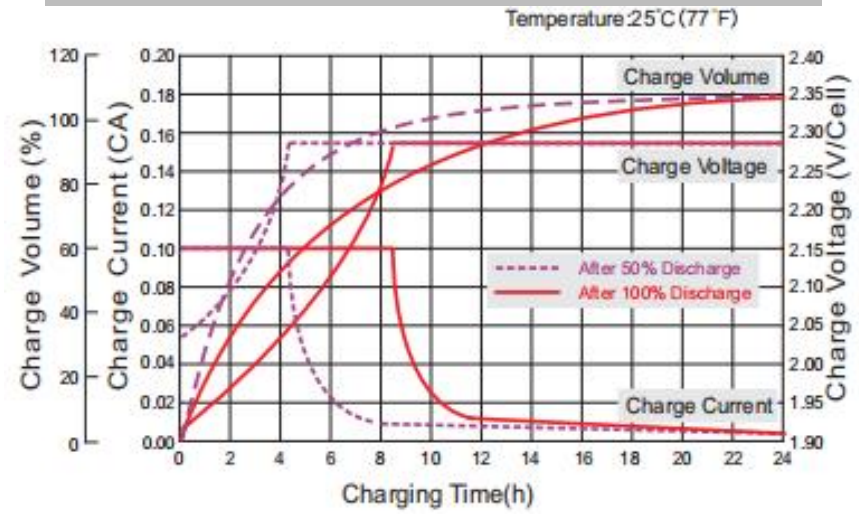


Constant Power Discharge
W/Cell (@ 77°F/25°C)

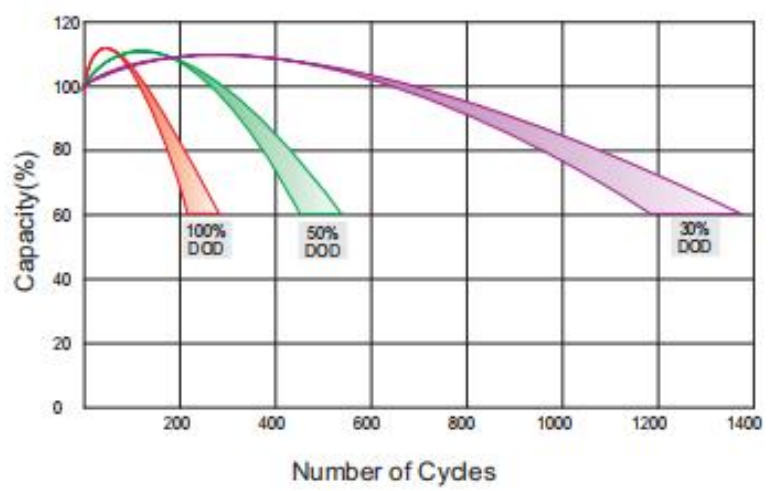
Discharge Characteristics Curve



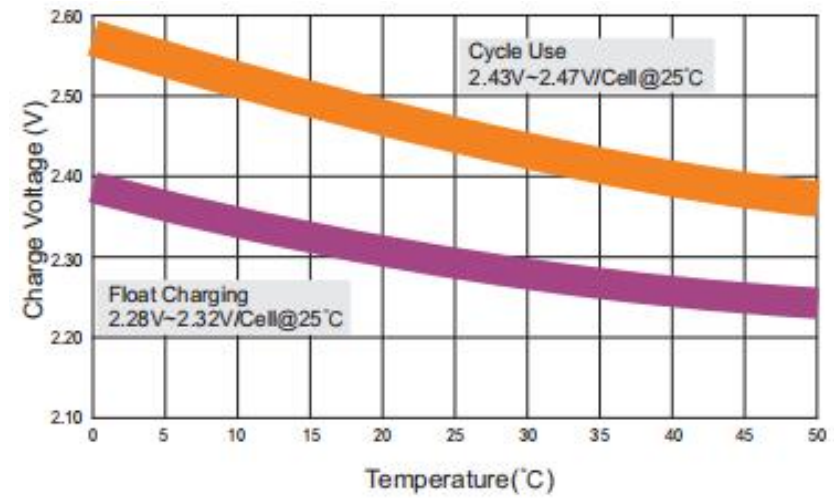
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

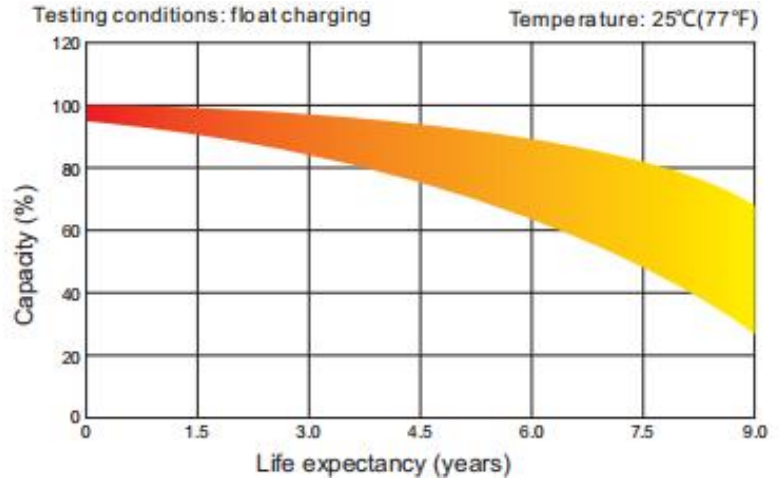


Relationship Between Charging Voltage and Temperature

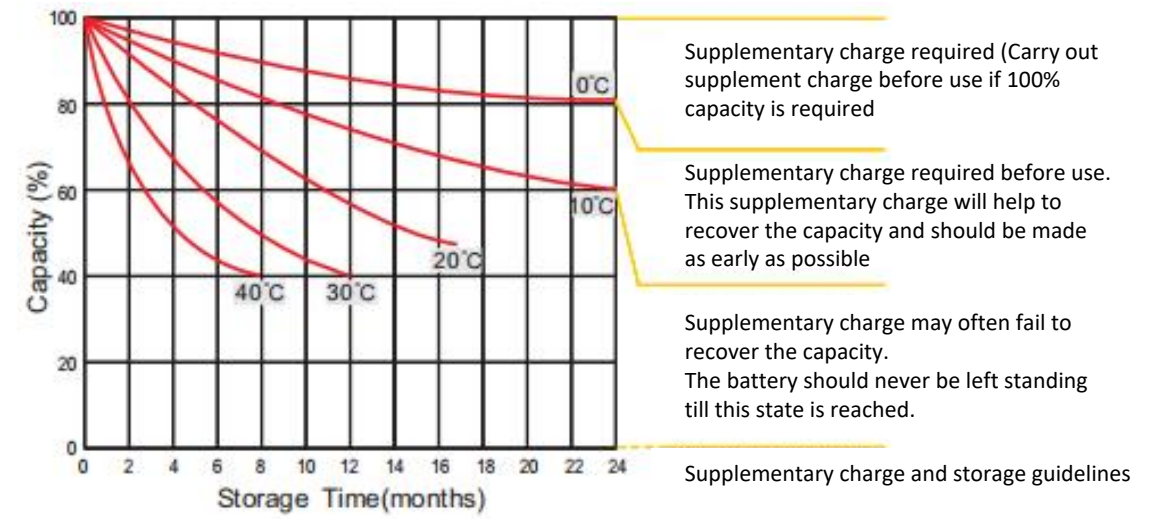


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

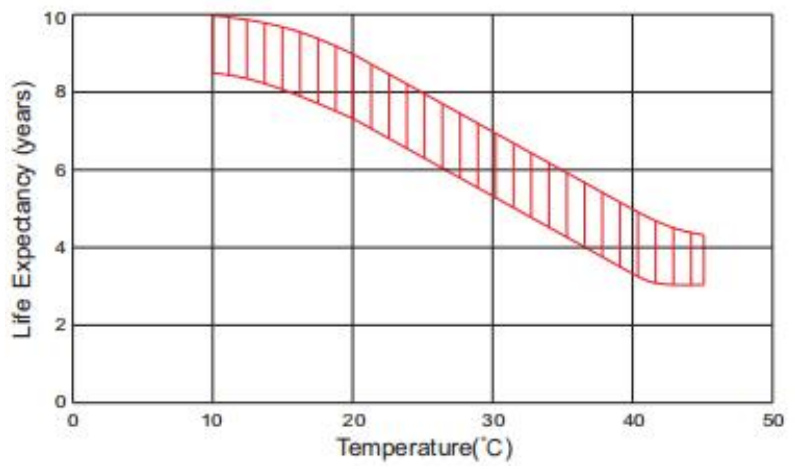
Life Characteristics of Standby Use



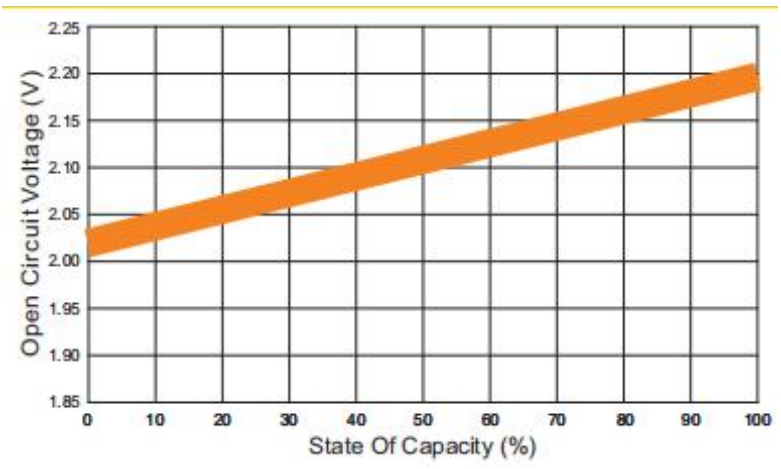
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-150W(12V 40Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

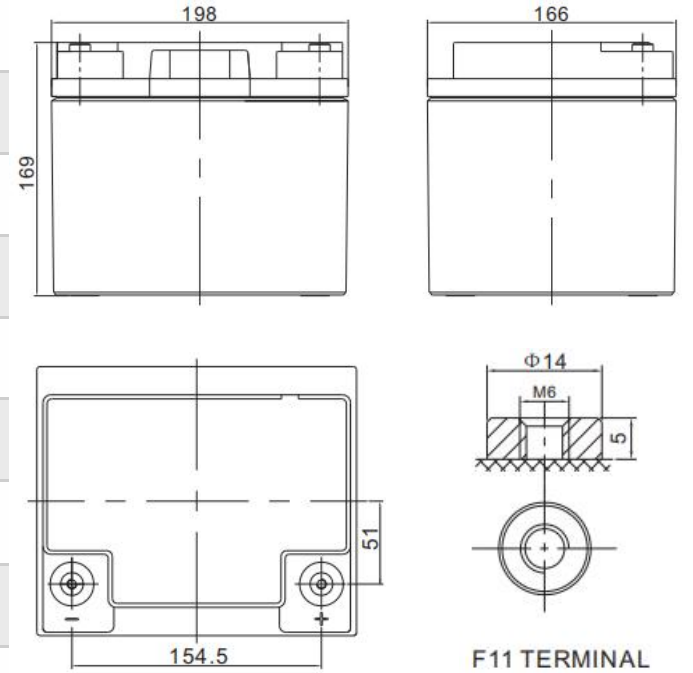
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-150W(12V 40Ah)
Length	198±2mm (7.80 inches)
Width	166±2mm (6.54 inches)
Height	169±2mm (6.65 inches)
Total Height	169±2mm (6.65 inches)
Weight	Approx. 12.4Kg (Tolerance±5%)
Terminal	Default F11(M6), Value: 8~10N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


GW12-150W Dimension

Parameters	GW12-150W(12V 40Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	150W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤9.5 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	400A (5 sec)
Max. Charging Current	12.0A
Short Circuit Current	1100A
Reference Capacity	C10: 37.8Ah C20: 40.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-150W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	149.9	124.1	108.7	82.95	67.54	49.79	28.81	20.68
1.65V	136.0	113.8	100.5	77.36	63.49	47.11	27.49	19.83
1.70V	130.2	109.4	96.87	75.00	61.71	45.98	26.94	19.45
1.75V	120.2	101.9	90.82	70.95	58.63	44.03	26.00	18.84
1.80V	110.2	94.36	84.76	67.14	55.87	42.16	25.06	18.23
1.85V	94.56	80.38	71.81	57.73	48.49	37.30	22.64	16.62



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

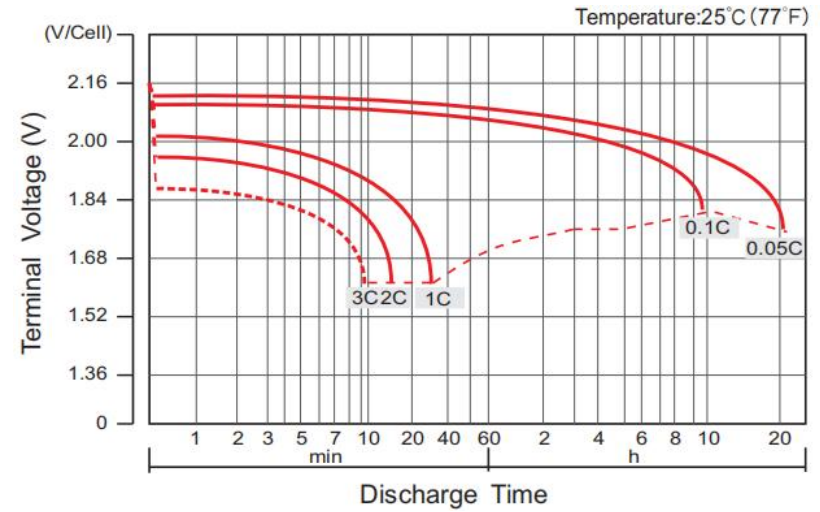
Model: GW12-150W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	275.4	231.1	204.5	158.1	129.8	96.74	54.11	39.13
1.65V	256.4	216.8	193.0	150.0	123.9	92.76	52.08	37.83
1.70V	247.9	210.3	187.6	146.5	121.2	90.90	51.22	37.30
1.75V	232.7	198.7	178.2	140.2	116.4	87.90	49.82	36.30
1.80V	216.5	186.5	168.3	134.0	112.0	84.82	48.33	35.30
1.85V	188.6	161.1	144.5	116.4	98.11	75.65	43.96	32.47

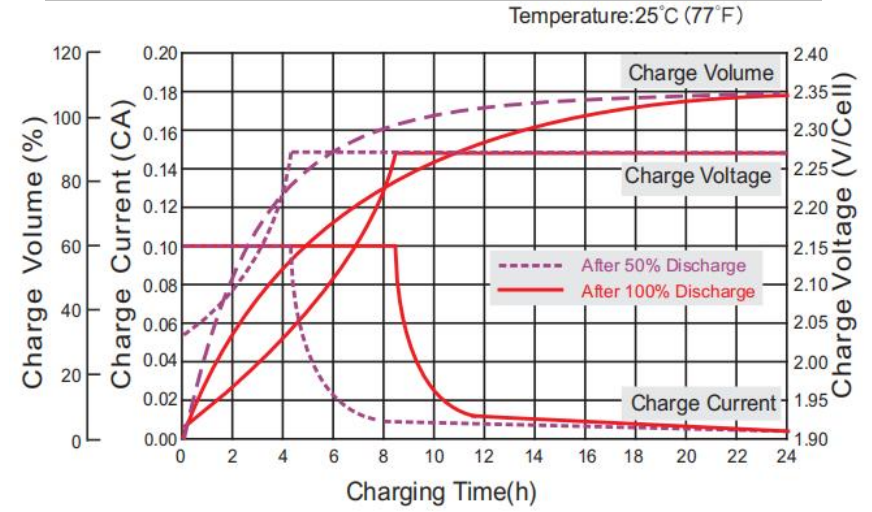


Constant Power Discharge
W/Cell (@ 77°F/25°C)

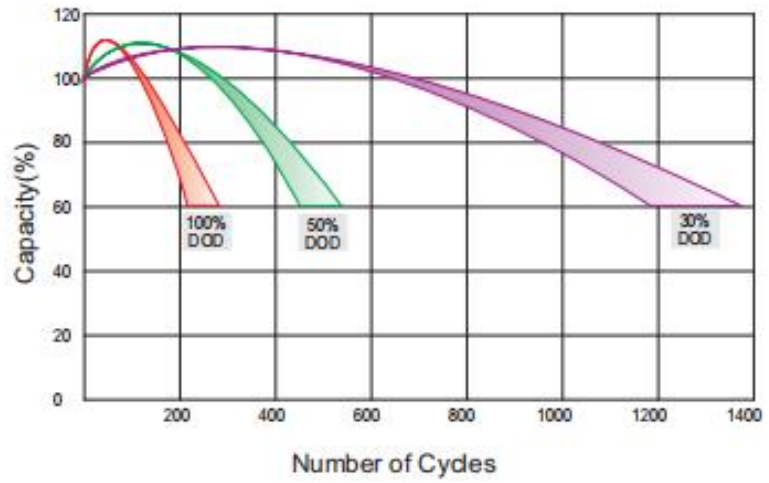
Discharge Characteristics Curve



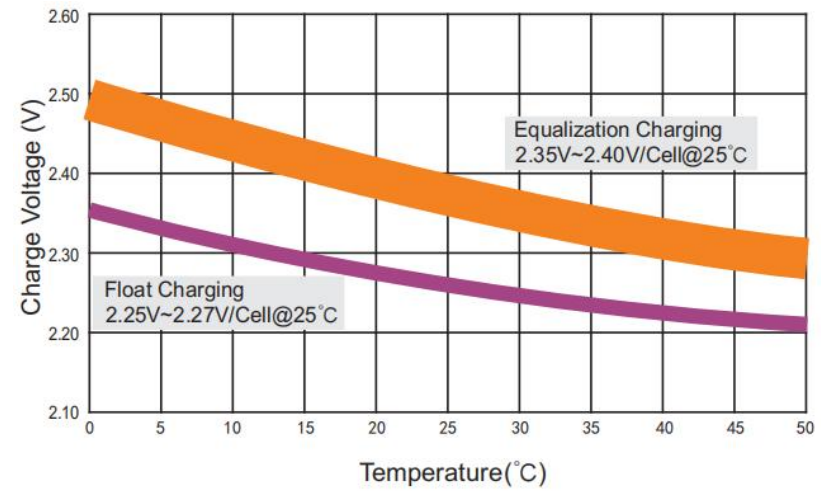
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

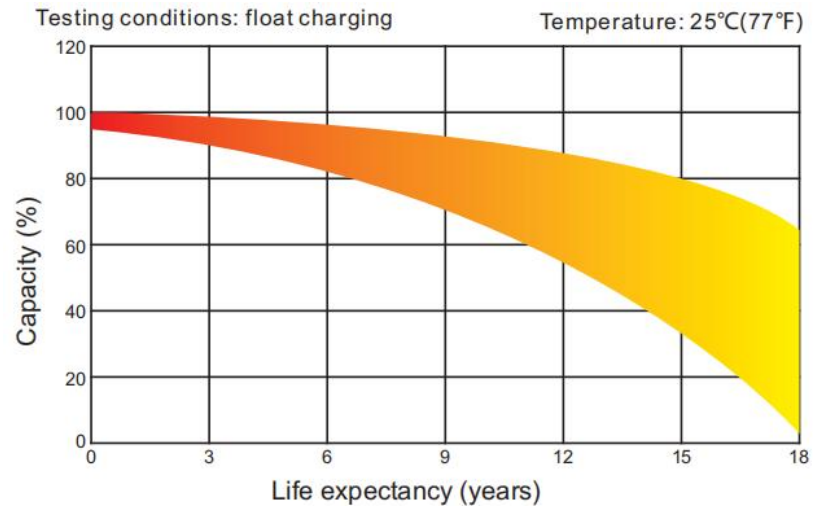


Relationship Between Charging Voltage and Temperature

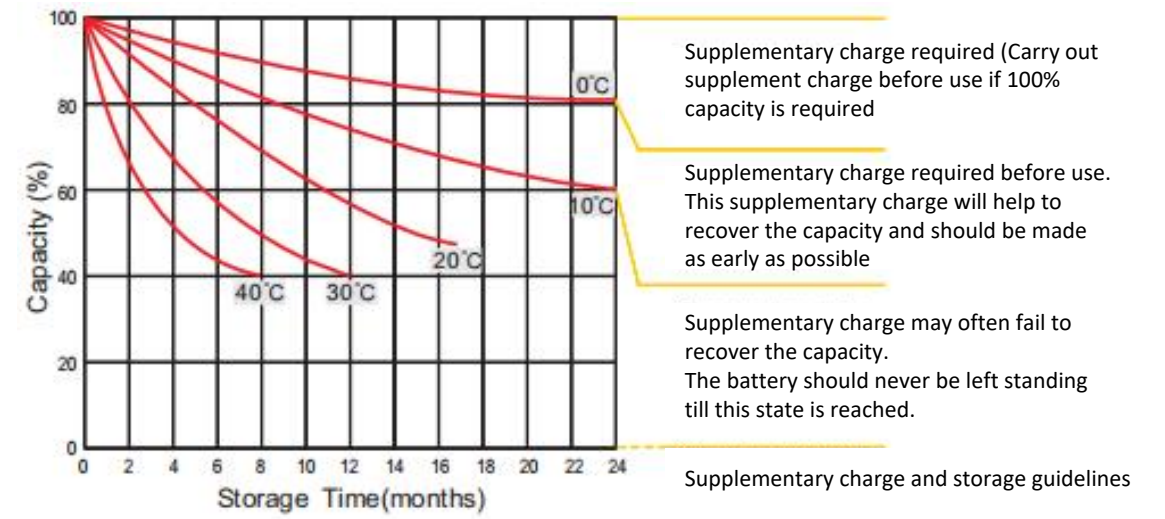


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

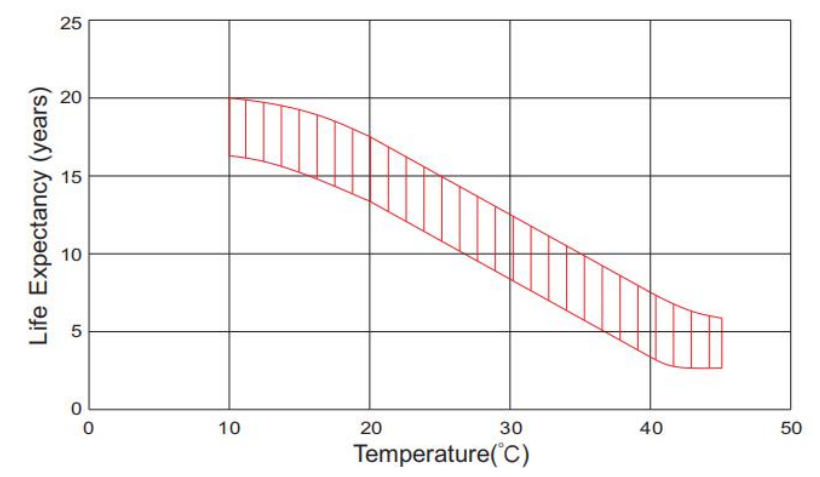
Life Characteristics of Standby Use



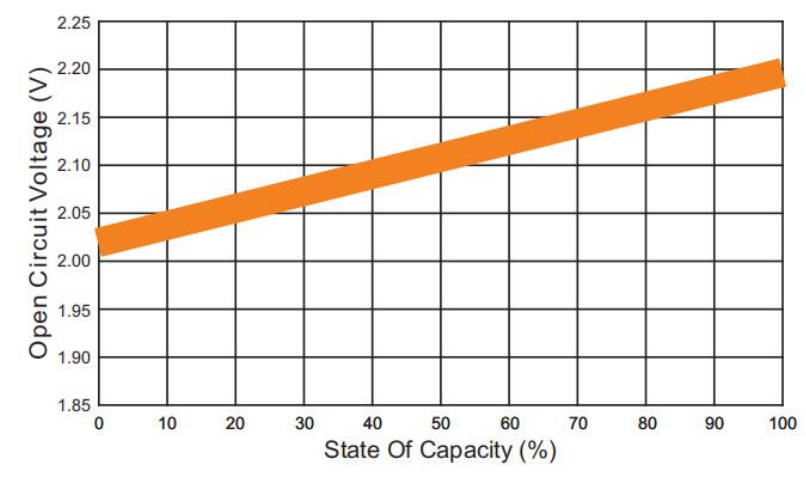
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-240W(12V 65Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

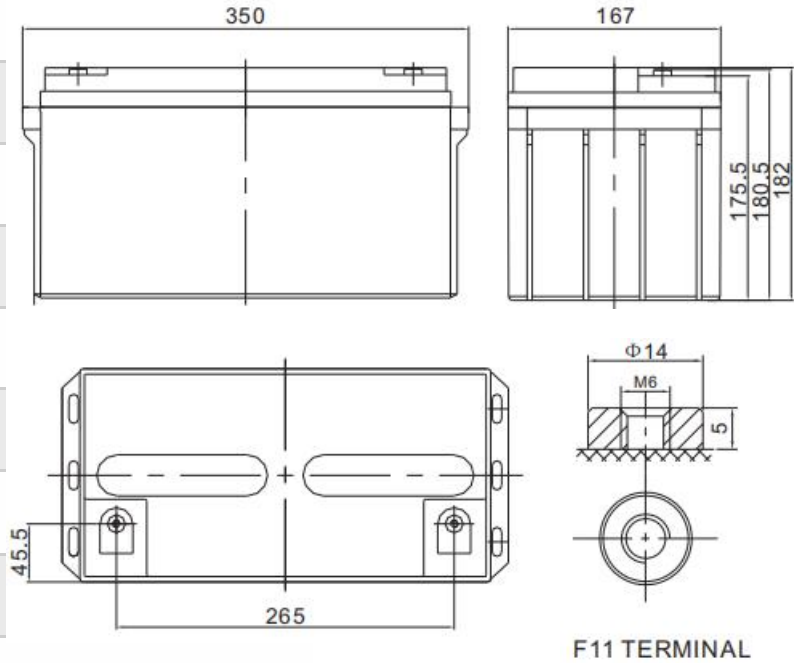
📍 Laval-Quebec-Canada

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📍 Hongkong-China

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Introduction	GW12-240W(12V 65Ah)
Length	350±2mm (13.8 inches)
Width	167±2mm (6.57 inches)
Height	182±2mm (7.17 inches)
Total Height	182±2mm (7.17 inches)
Weight	Approx. 17.5Kg (Tolerance±5%)
Terminal	Default F11(M6), Value: 8~10N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


GW12-240W Dimension

Parameters	GW12-240W(12V 65Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	240W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤6.5 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	650A (5 sec)
Max. Charging Current	19.5A
Short Circuit Current	1650A
Reference Capacity	C10: 61.3Ah C20: 65.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-240W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	232.7	194.6	172.2	132.7	108.1	79.66	46.10	33.09
1.65V	211.1	178.4	159.2	123.8	101.6	75.38	43.98	31.74
1.70V	202.1	171.5	153.5	120.0	98.74	73.57	43.10	31.12
1.75V	186.6	159.8	143.9	113.5	93.81	70.45	41.60	30.14
1.80V	171.0	148.0	134.3	107.4	89.39	67.47	40.11	29.16
1.85V	146.8	126.0	113.8	92.38	77.59	59.68	36.23	26.59



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

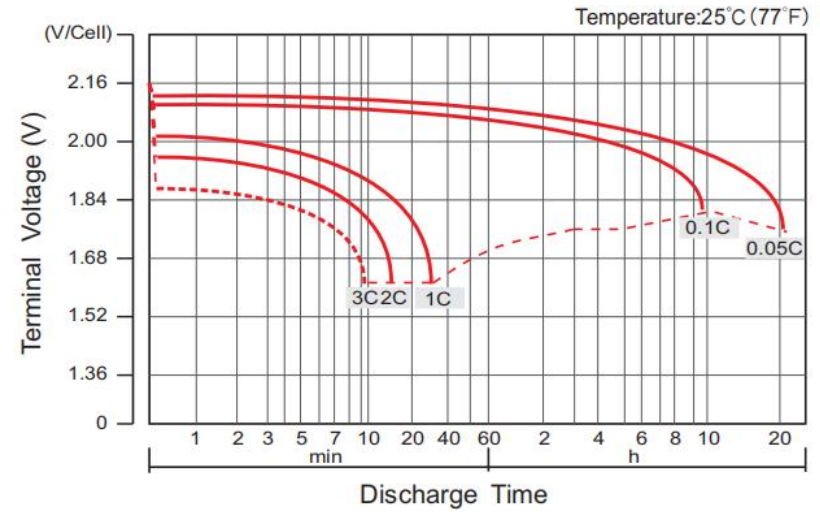
Model: GW12-240W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	427.5	362.4	324.0	253.0	207.7	154.8	86.58	62.62
1.65V	397.9	340.0	305.7	240.0	198.3	148.4	83.33	60.53
1.70V	384.8	329.8	297.2	234.4	194.0	145.4	81.96	59.68
1.75V	361.1	311.6	282.3	224.3	186.2	140.6	79.71	58.08
1.80V	336.1	292.5	266.5	214.3	179.2	135.7	77.34	56.49
1.85V	292.8	252.7	228.8	186.3	157.0	121.1	70.34	51.96

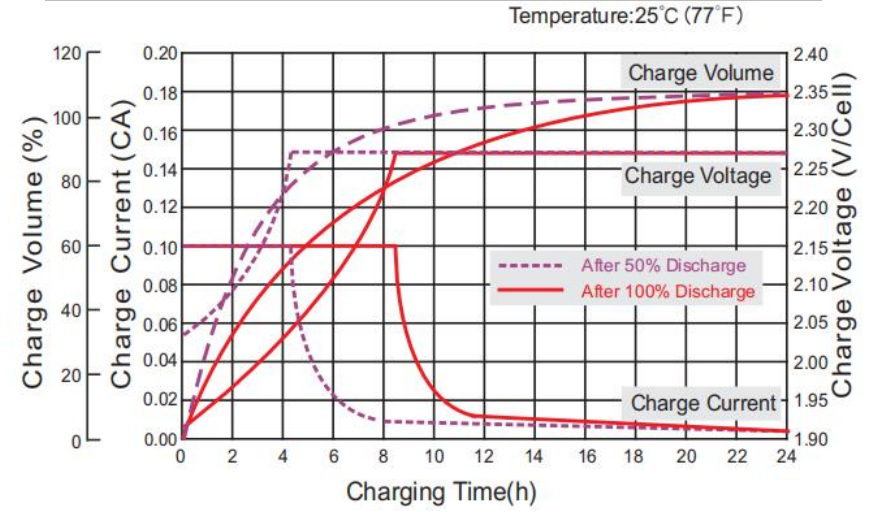


Constant Power Discharge
W/Cell (@ 77°F/25°C)

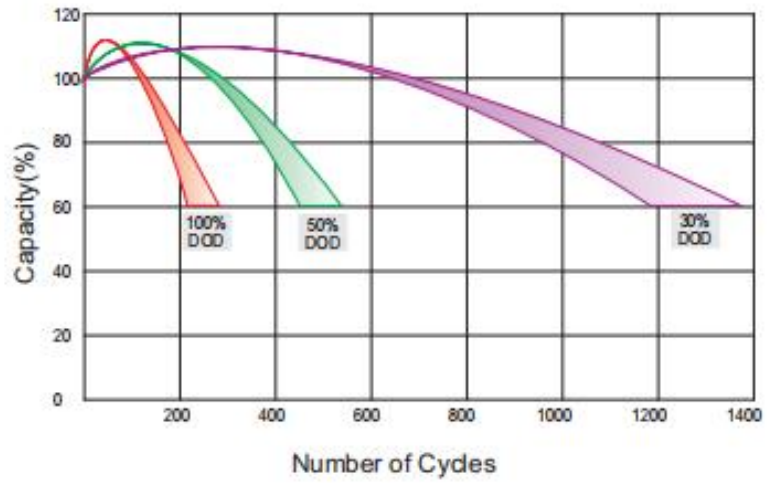
Discharge Characteristics Curve



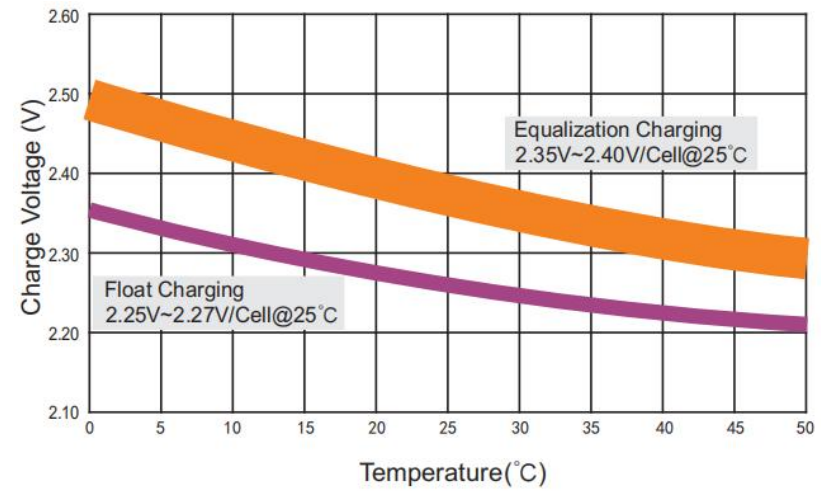
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

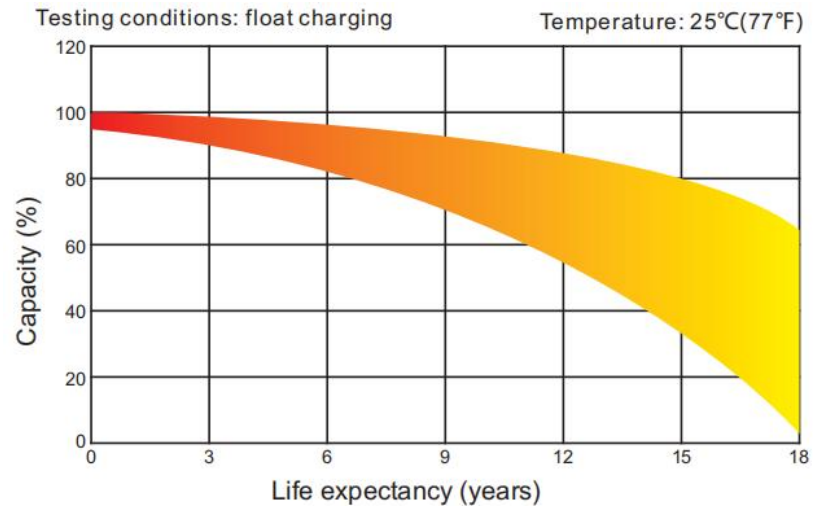


Relationship Between Charging Voltage and Temperature

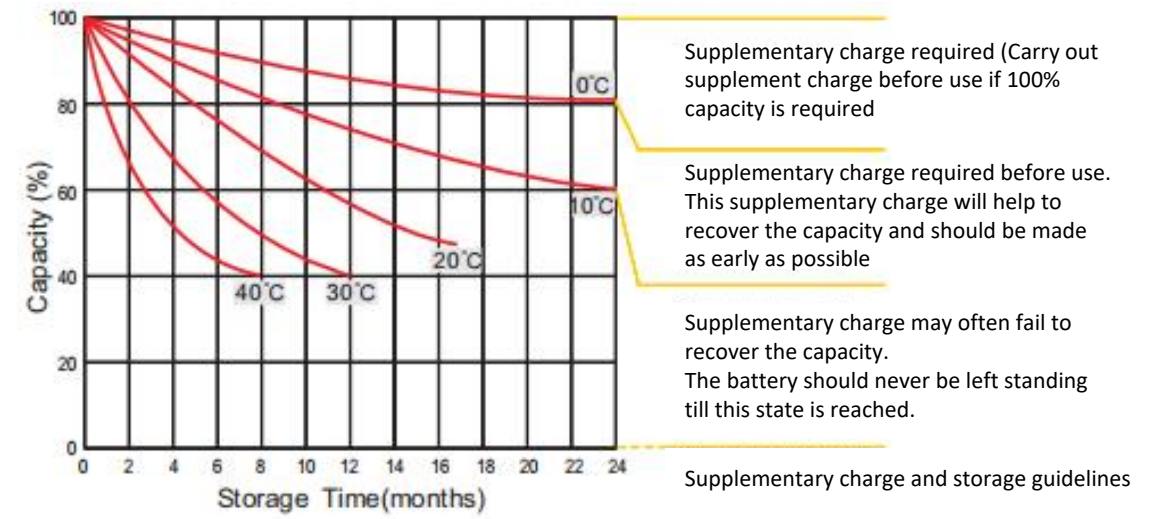


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

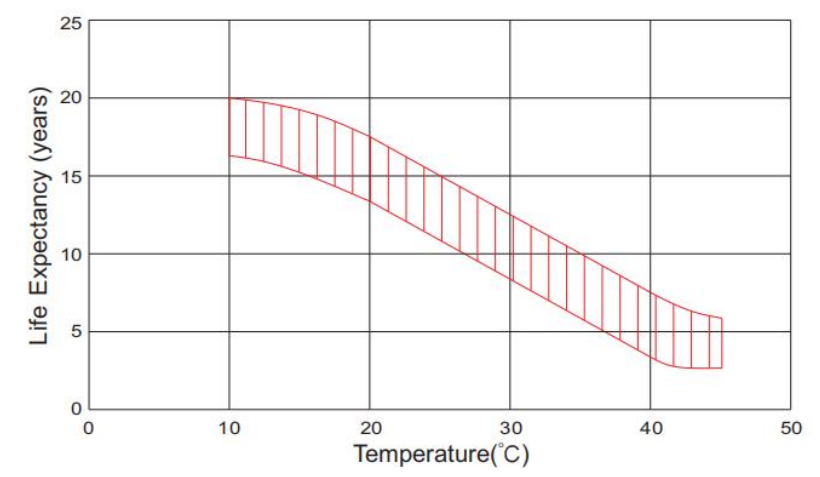
Life Characteristics of Standby Use



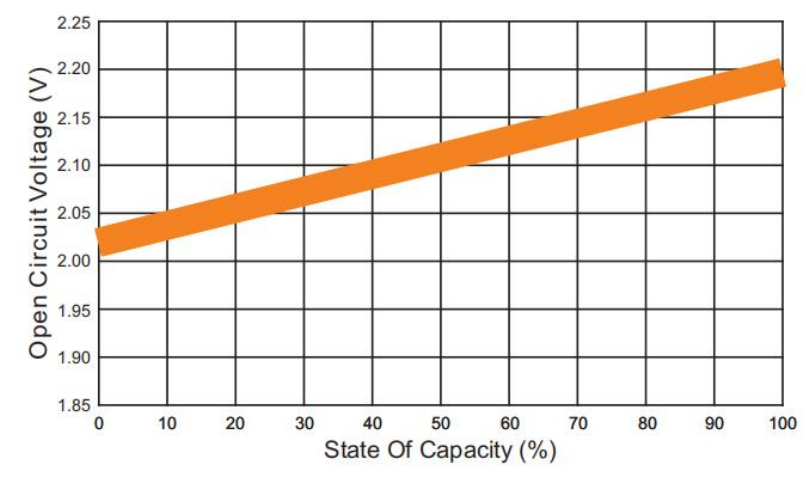
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-300W(12V 80Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

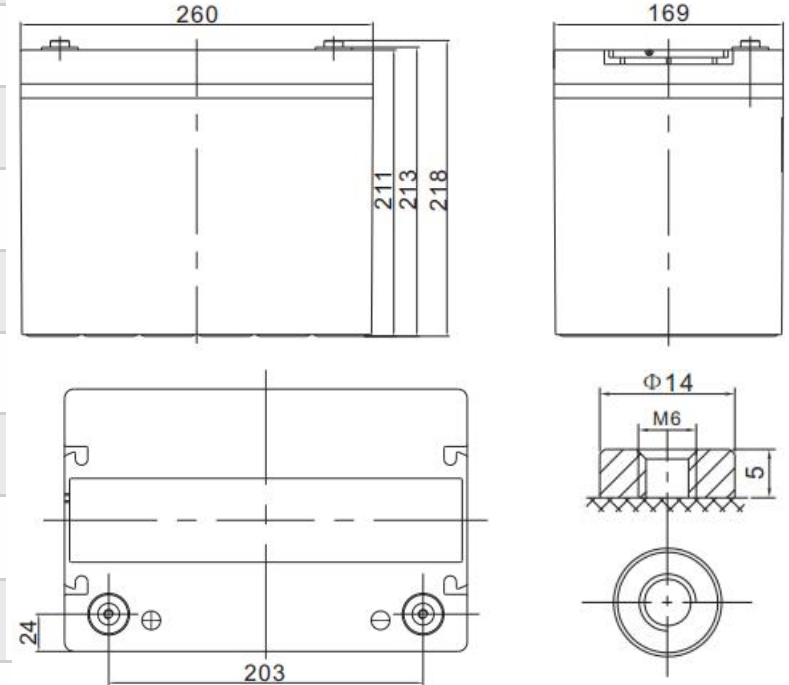
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-300W(12V 80Ah)
Length	260±2mm (10.2 inches)
Width	169±2mm (6.65 inches)
Height	211±2mm (8.31 inches)
Total Height	216±2mm (8.50 inches)
Weight	Approx. 25.5Kg (Tolerance±5%)
Terminal	Default F11(M6), Value: 8~10N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F11 TERMINAL

GW12-300W Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.


Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-300W(12V 80Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	300W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤5.8 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	800A (5 sec)
Max. Charging Current	24.0A
Short Circuit Current	1900A
Reference Capacity	C10: 75.0Ah C20: 80.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-300W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	269.8	228.3	208.7	165.9	135.1	99.55	57.61	41.34
1.65V	244.8	209.3	192.9	154.7	127.0	94.20	54.96	39.66
1.70V	234.4	201.2	185.9	150.0	123.4	91.93	53.86	38.89
1.75V	216.4	187.4	174.3	141.9	117.2	88.04	51.99	37.67
1.80V	198.3	173.6	162.7	134.2	111.7	84.31	50.12	36.44
1.85V	170.2	147.9	137.8	115.4	96.96	74.58	45.28	33.23



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

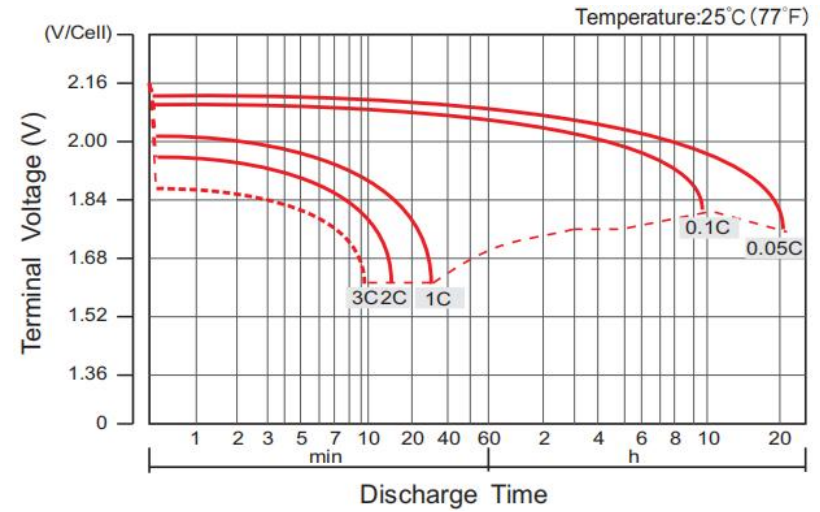
Model: GW12-300W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	495.7	425.1	392.6	316.2	259.6	193.4	108.2	78.25
1.65V	461.3	398.8	370.4	300.0	247.7	185.5	104.1	75.64
1.70V	446.2	386.9	360.1	293.0	242.4	181.8	102.4	74.57
1.75V	418.7	365.6	342.0	280.3	232.7	175.8	99.61	72.58
1.80V	389.7	343.2	323.0	267.8	223.9	169.6	96.64	70.59
1.85V	339.5	296.4	277.3	232.8	196.2	151.3	87.90	64.93

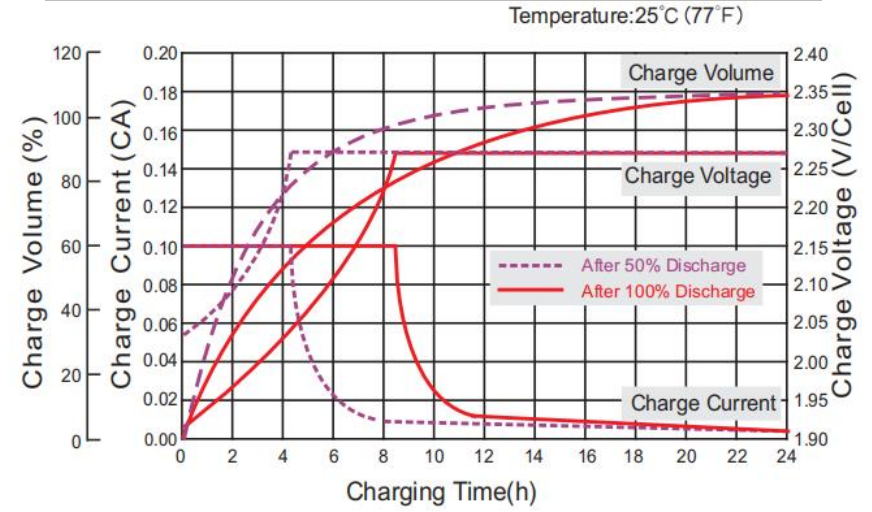


Constant Power Discharge
W/Cell (@ 77°F/25°C)

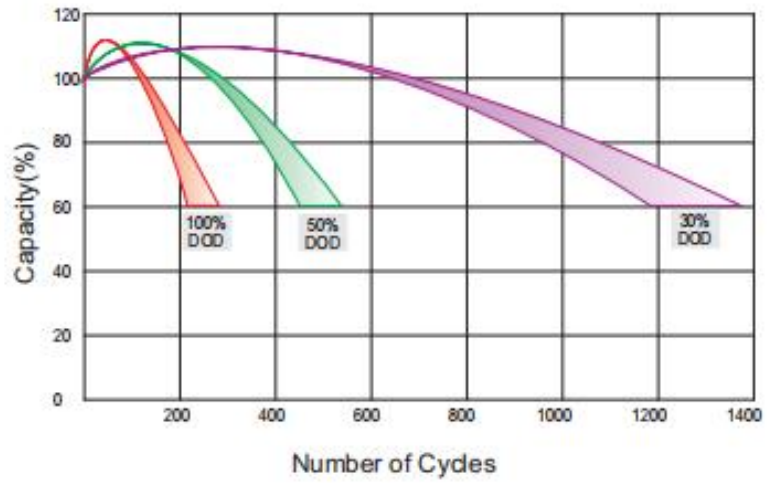
Discharge Characteristics Curve



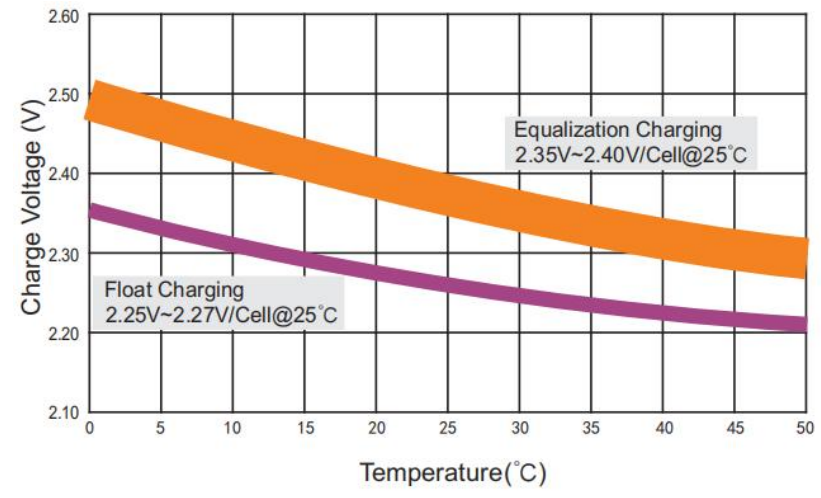
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

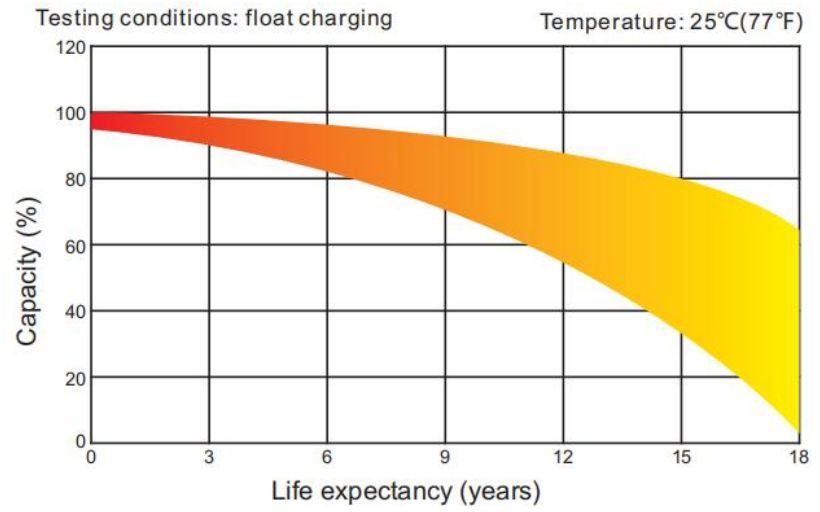


Relationship Between Charging Voltage and Temperature

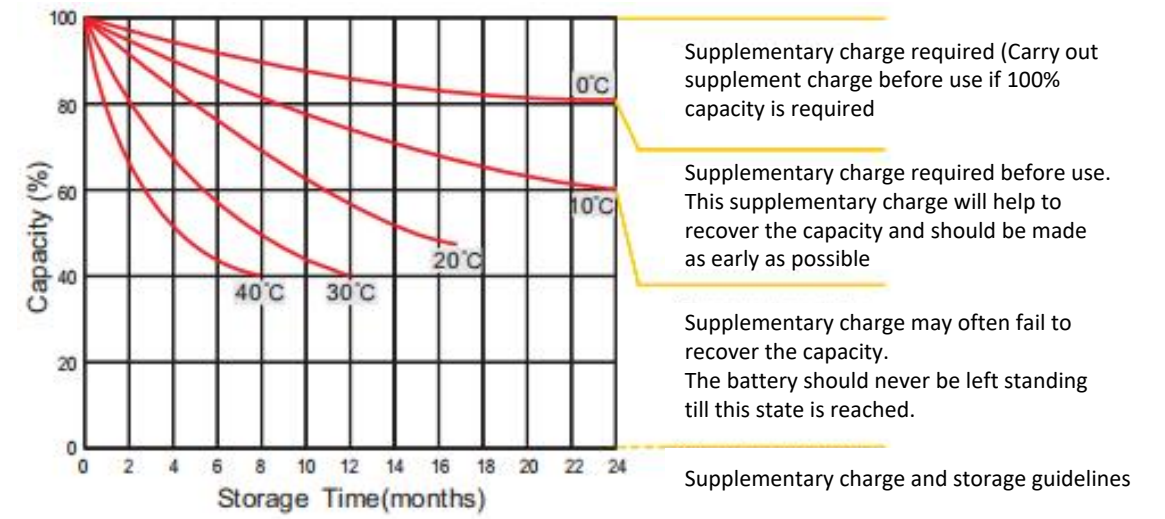


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

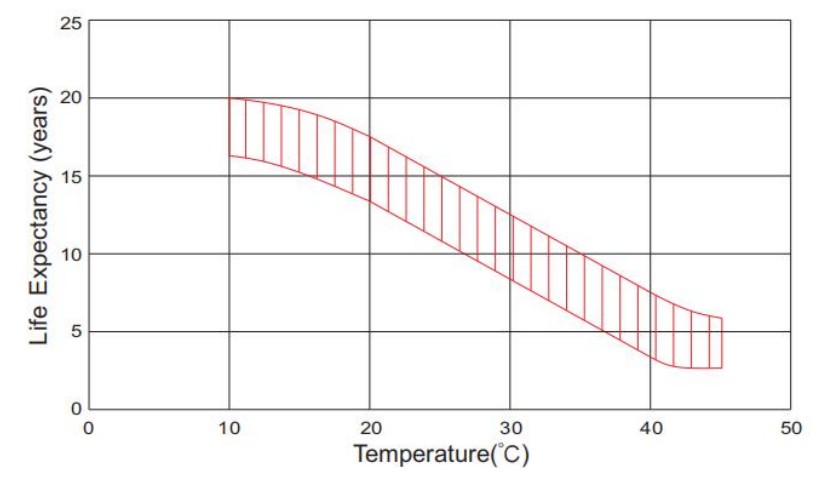
Life Characteristics of Standby Use



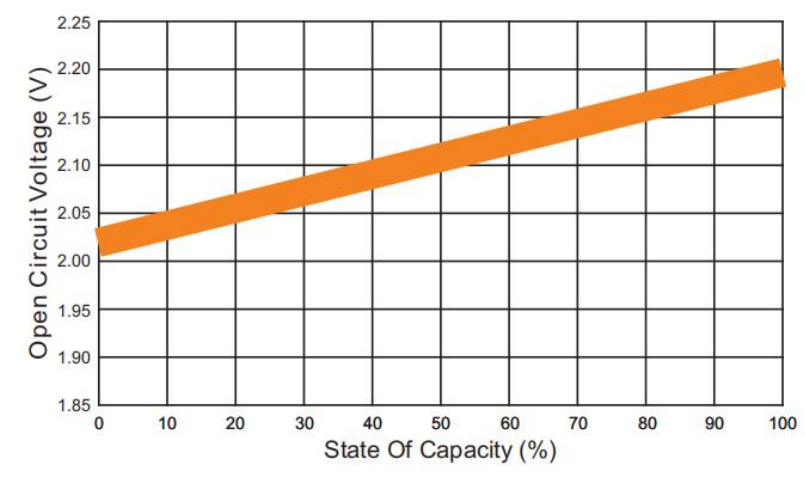
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-380SW(12V 100Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

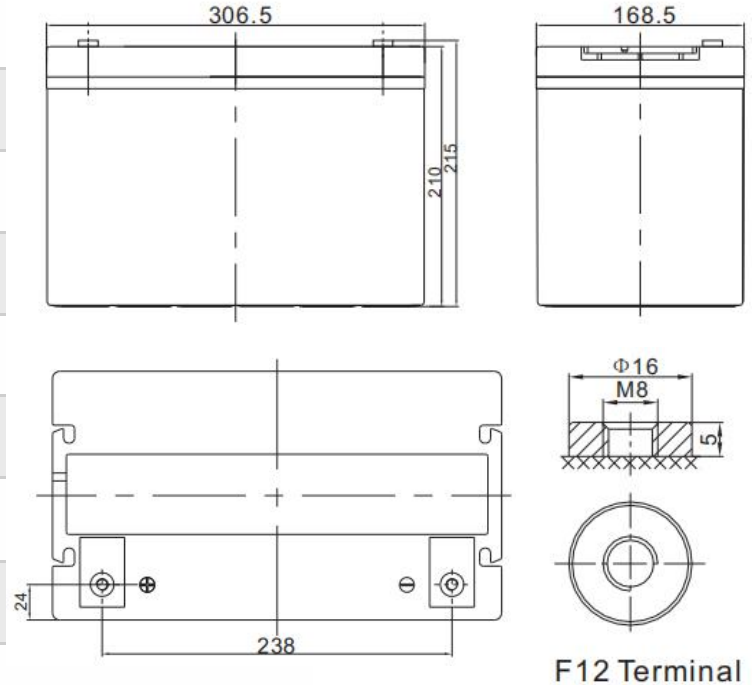
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-380SW(12V 100Ah)
Length	306.5±2mm (12.1 inches)
Width	168.5±2mm (6.63 inches)
Height	210±2mm (8.27 inches)
Total Height	215±2mm (8.46 inches)
Weight	Approx. 30.0Kg (Tolerance±5%)
Terminal	Default F12(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


GW12-380SW Dimension

Parameters	GW12-380SW(12V 100Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	380W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤5.0 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1000A (5 sec)
Max. Charging Current	30.0A
Short Circuit Current	2550A
Reference Capacity	C10: 94.3Ah C20: 100.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-380SW Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	324.6	289.6	267.2	210.1	171.1	126.1	72.98	52.37
1.65V	294.6	265.6	246.9	195.9	160.8	119.3	69.62	50.24
1.70V	282.1	255.3	238.1	190.0	156.3	116.5	68.24	49.27
1.75V	260.4	237.8	223.2	179.7	148.5	111.5	65.86	47.72
1.80V	238.6	220.2	208.3	170.1	141.5	106.8	63.49	46.17
1.85V	204.8	187.6	176.5	146.2	122.8	94.48	57.36	42.09



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

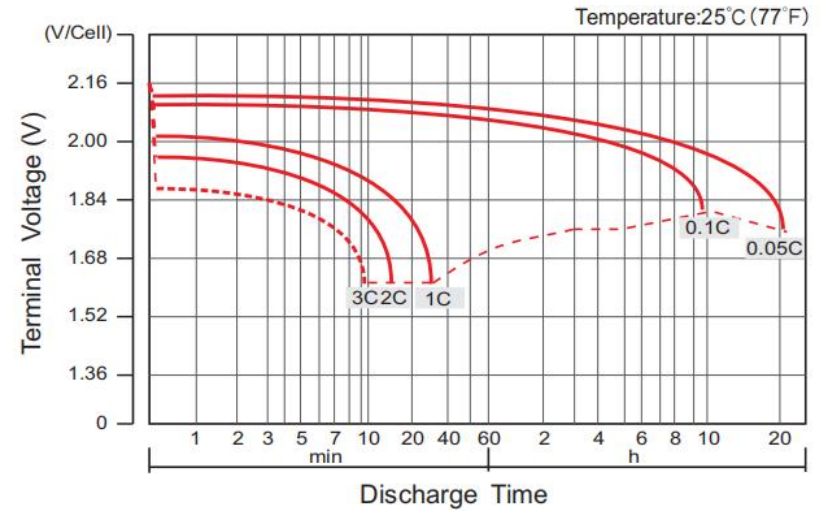
Model: GW12-380SW

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	596.5	539.4	502.6	400.5	328.8	245.0	137.1	99.12
1.65V	555.2	506.0	474.3	380.0	313.8	235.0	131.9	95.83
1.70V	536.9	490.9	461.0	371.1	307.1	230.2	129.7	94.47
1.75V	503.9	463.9	437.6	355.1	294.7	222.6	126.2	91.95
1.80V	469.0	435.4	413.5	339.3	283.6	214.8	122.4	89.42
1.85V	408.5	376.1	355.0	294.9	248.5	191.6	111.4	82.25

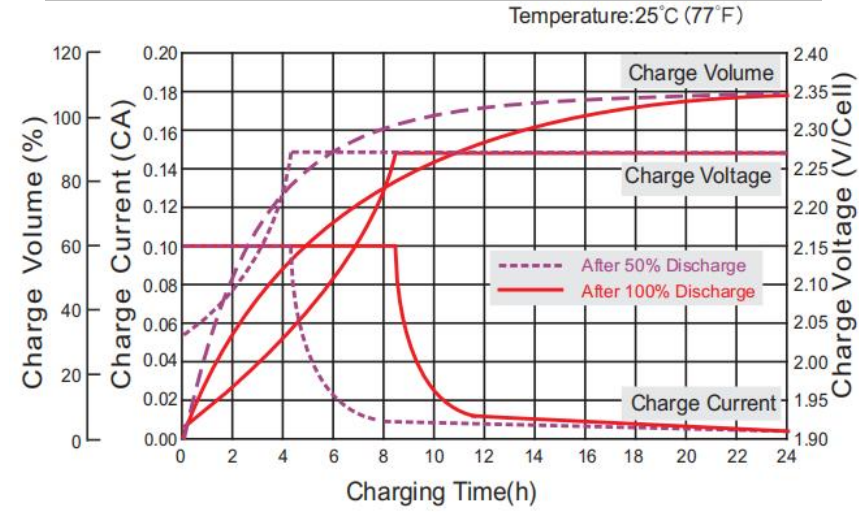


Constant Power Discharge
W/Cell (@ 77°F/25°C)

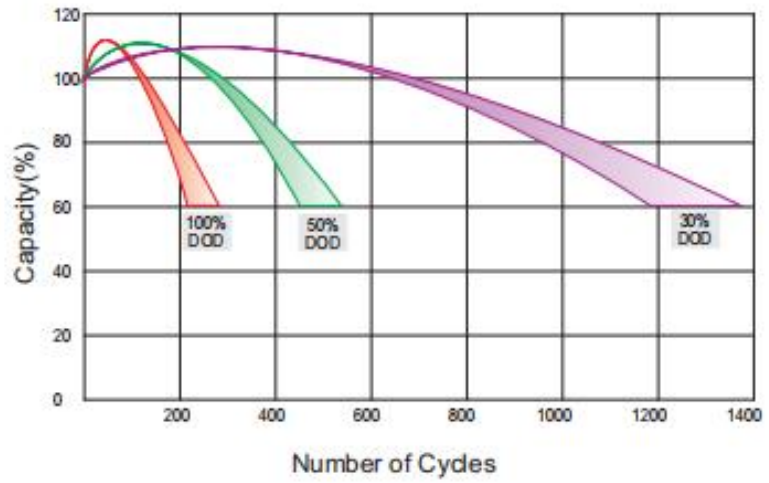
Discharge Characteristics Curve



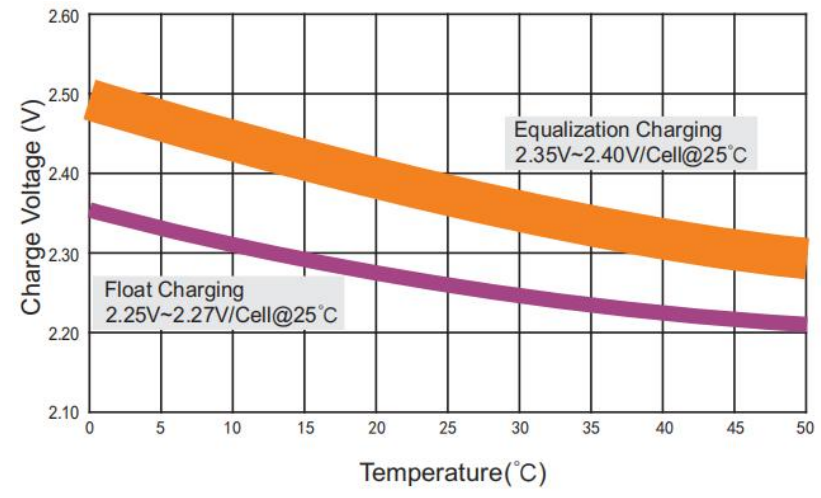
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

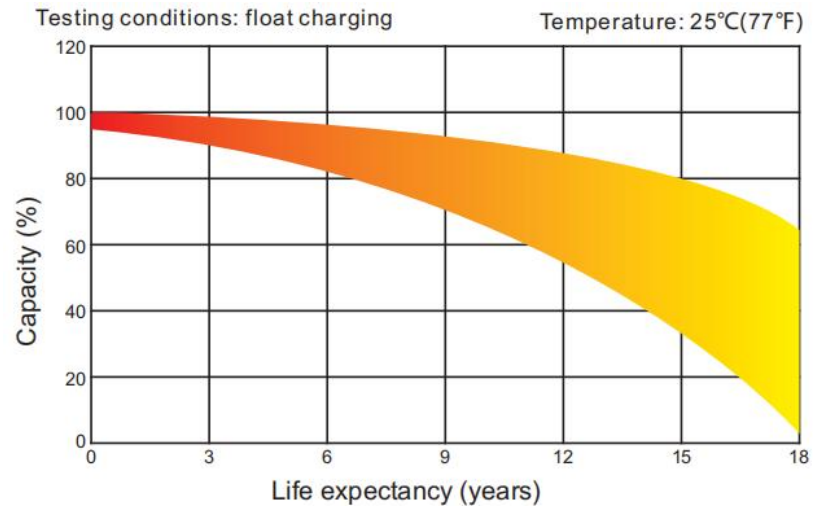


Relationship Between Charging Voltage and Temperature

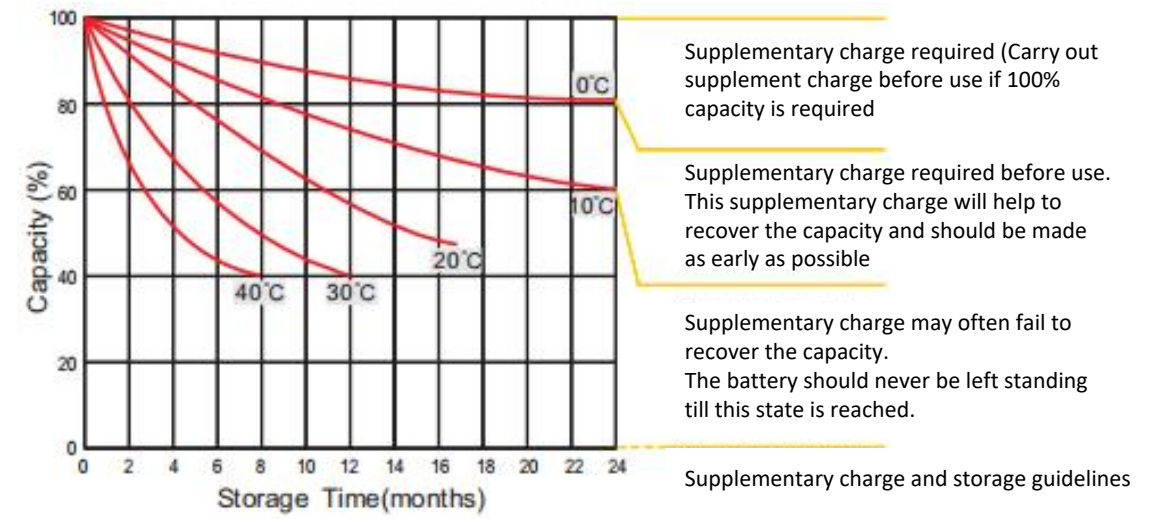


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

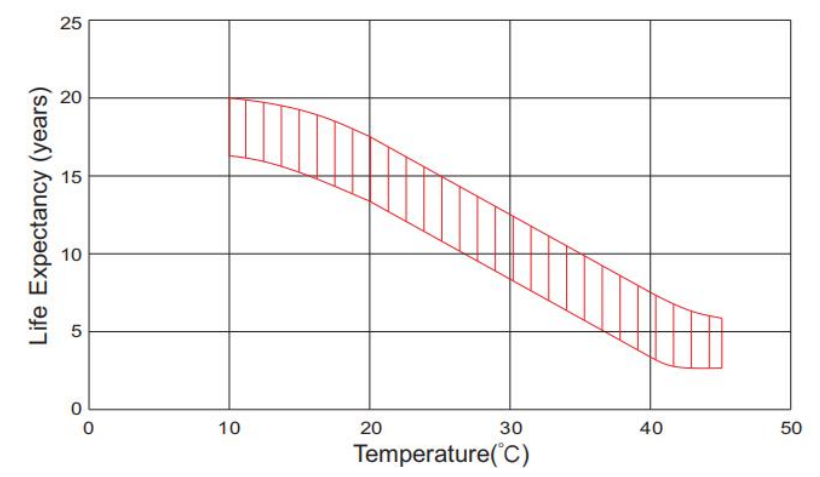
Life Characteristics of Standby Use



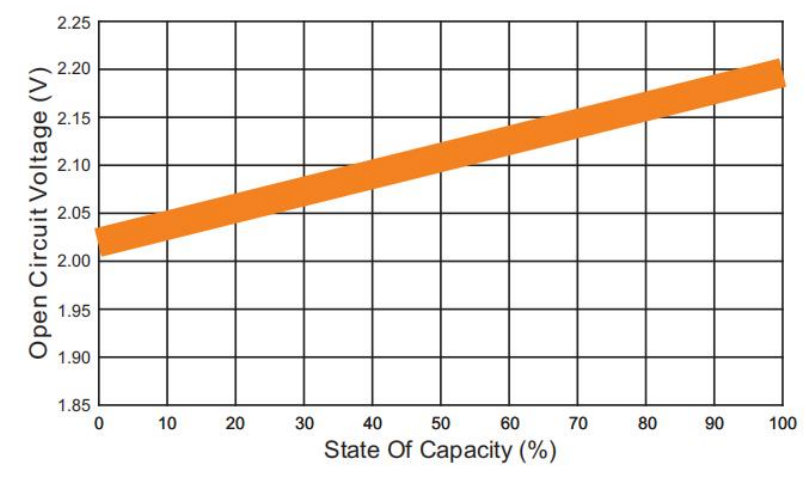
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy



Model: GW12-420W(12V 110Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

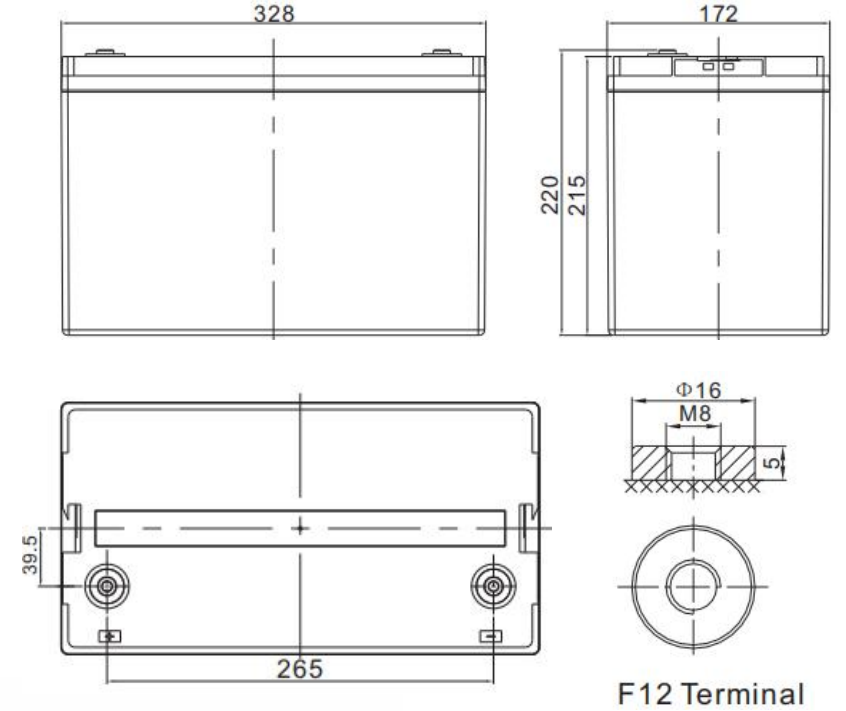
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-420W(12V 110Ah)
Length	328±2mm (12.9 inches)
Width	172±2mm (6.77 inches)
Height	215±2mm (8.46 inches)
Total Height	220±2mm (8.66 inches)
Weight	Approx. 33.5Kg (Tolerance±5%)
Terminal	Default F12(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS, Electric Tools, Toys, Medical, Wheelchair and Security System etc.



F12 Terminal

GW12-420W Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features Separator: Improved AGM separator increases deep cycle life.

Safety Valve: Flame arrester/filter is equipped with safety valve system.


Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-420W (12V 110Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	420W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤4.8 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1100A (5 sec)
Max. Charging Current	33.0A
Short Circuit Current	2700A
Reference Capacity	C10: 104.0Ah C20: 110.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-420W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	377.7	330.0	298.3	232.2	189.1	139.4	80.66	57.89
1.65V	342.7	302.6	275.7	216.6	177.7	131.9	76.95	55.53
1.70V	328.2	290.9	265.8	210.0	172.8	128.7	75.42	54.46
1.75V	303.0	271.0	249.2	198.6	164.1	123.3	72.79	52.74
1.80V	277.6	251.0	232.6	188.0	156.4	118.0	70.17	51.03
1.85V	238.3	213.8	197.0	161.6	135.8	104.4	63.39	46.52



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

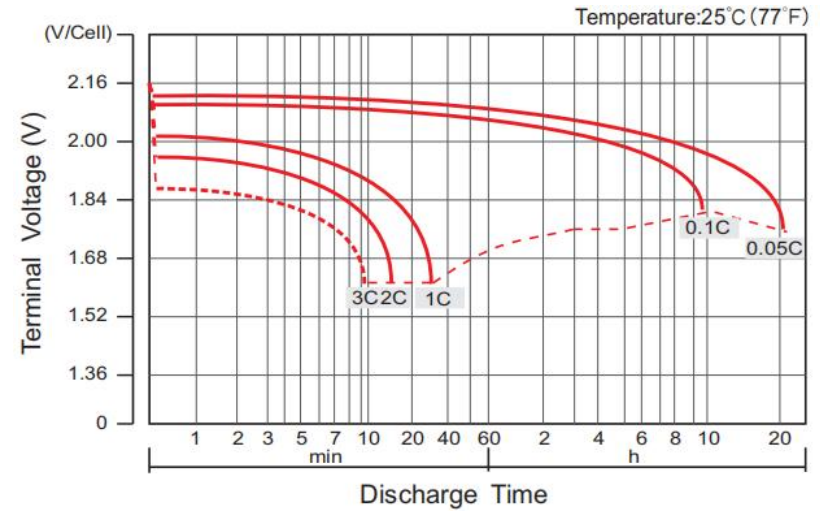
Model: GW12-420W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	694.0	614.6	561.1	442.7	363.4	270.8	151.5	109.6
1.65V	645.9	576.6	529.5	420.0	346.9	259.7	145.8	105.9
1.70V	624.7	559.3	514.7	410.2	339.4	254.5	143.4	104.4
1.75V	586.2	528.5	488.9	392.5	325.8	246.1	139.5	101.6
1.80V	545.6	496.1	461.7	375.0	313.5	237.5	135.3	98.84
1.85V	475.3	428.5	396.4	326.0	274.7	211.8	123.1	90.91

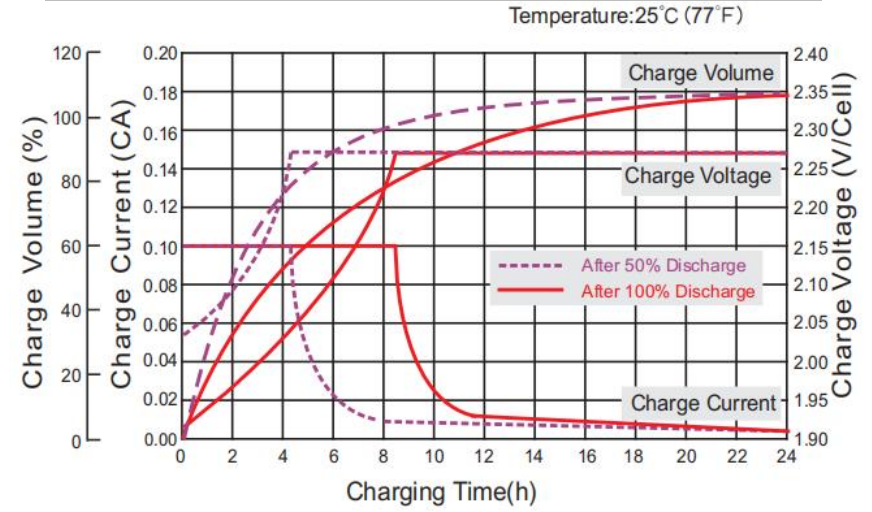


Constant Power Discharge
W/Cell (@ 77°F/25°C)

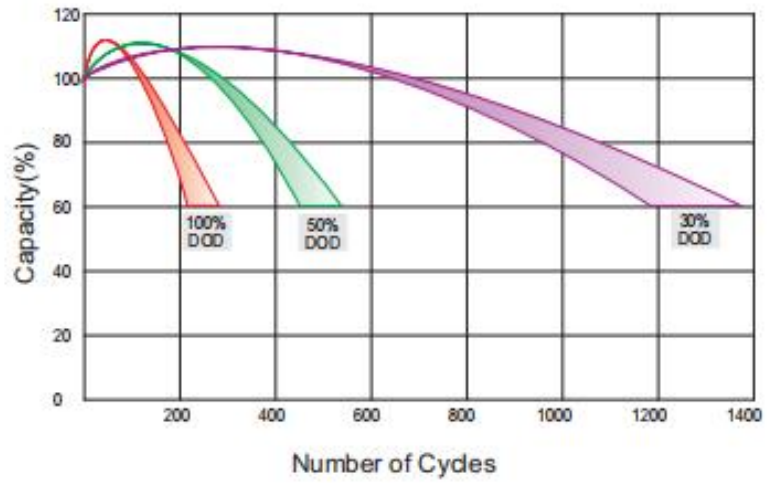
Discharge Characteristics Curve



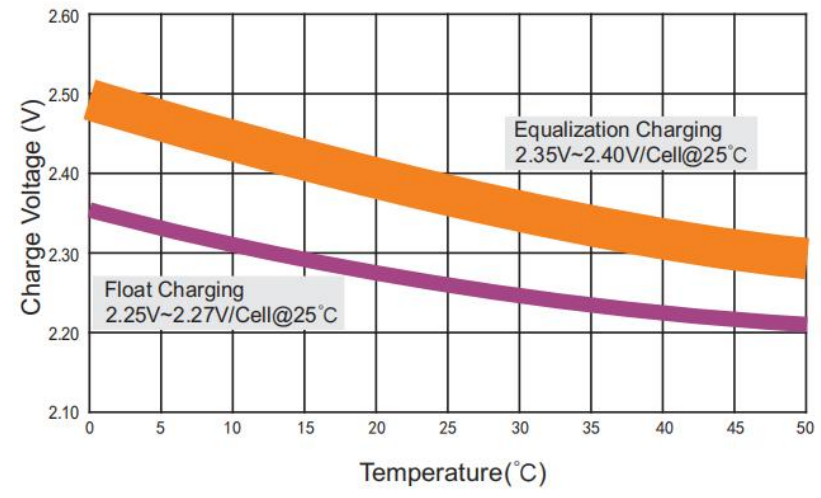
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

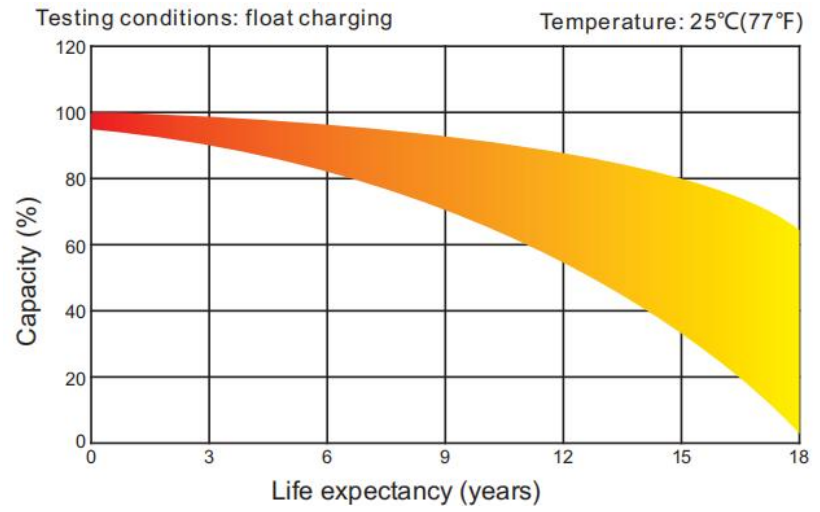


Relationship Between Charging Voltage and Temperature

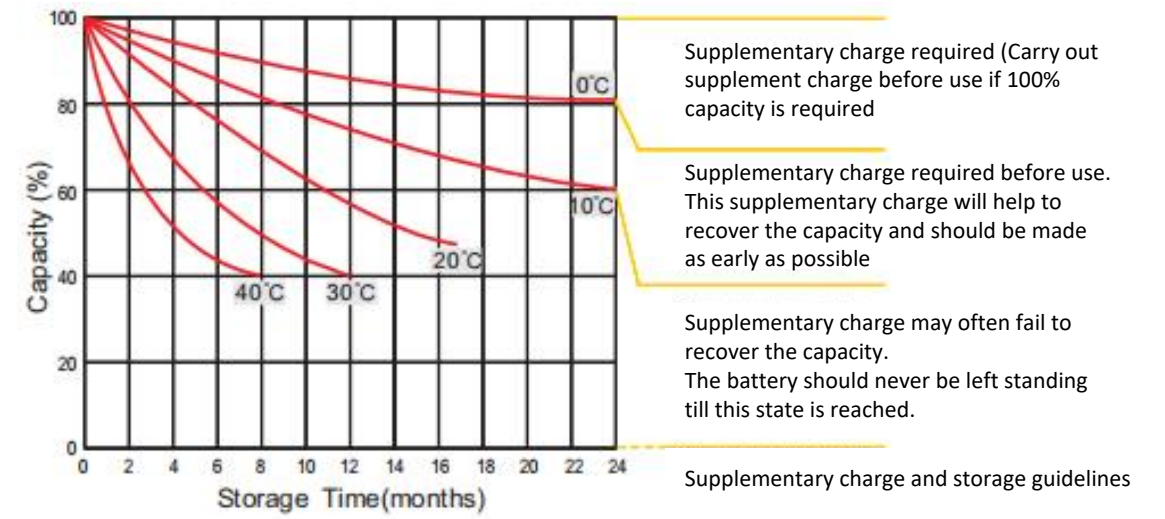


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

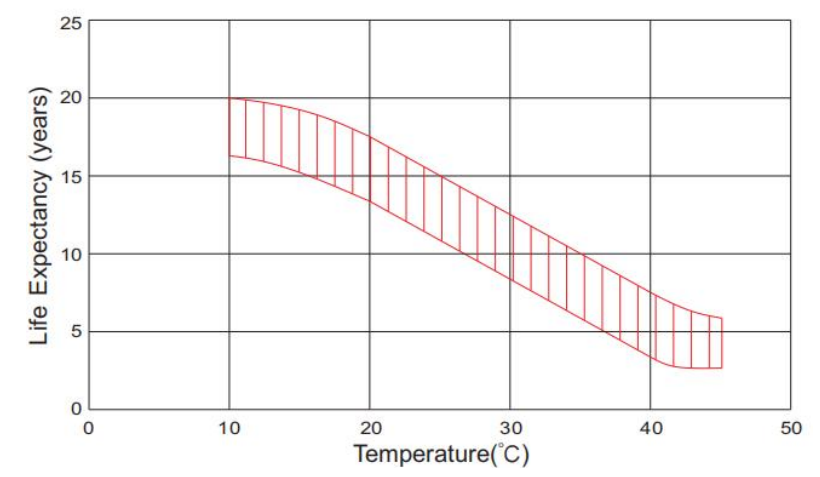
Life Characteristics of Standby Use



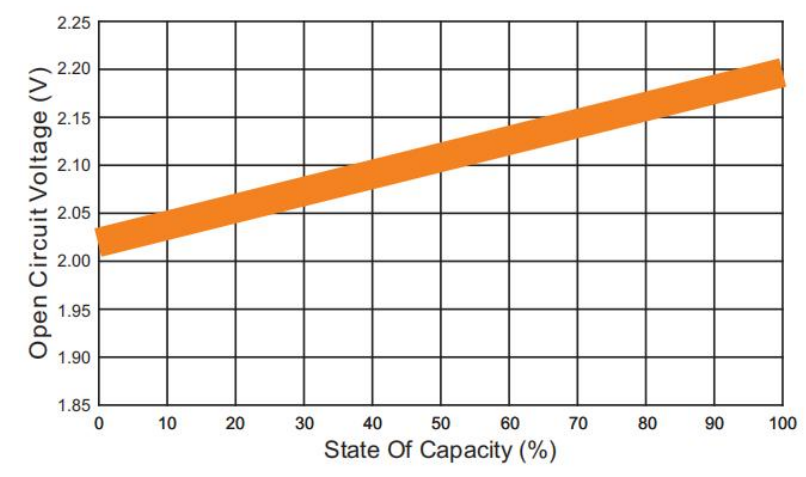
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-450W(12V 120Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction **GW12-450W(12V 120Ah)**

Length 407±2mm (16.0 inches)

Width 177±2mm (6.97 inches)

Height 225±2mm (8.86 inches)

Total Height 225±2mm (8.86 inches)

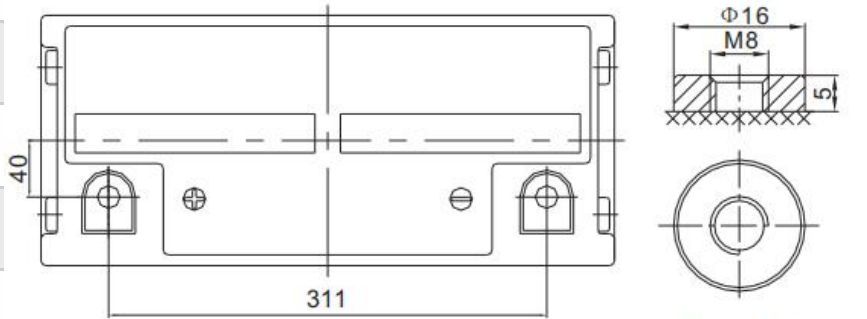
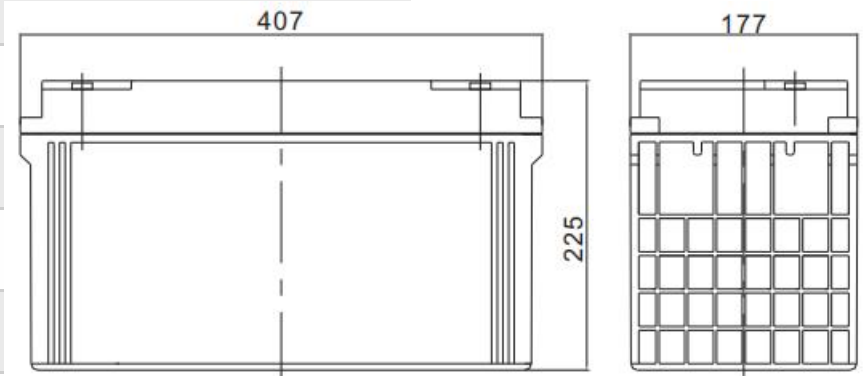
Weight Approx. 34.5Kg (Tolerance±5%)

Terminal Default F12(M8), Value: 10~12N*m

Container Material A.B.S. UL94-HB, <UL94-V0 Optional>

Design Life 15 years

Application UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F12 Terminal

GW12-450W Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.


Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-450W (12V 120Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	450W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤4.5 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1200A (5 sec)
Max. Charging Current	36.0A
Short Circuit Current	3000A
Reference Capacity	C10: 113.2Ah C20: 120.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-450W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	392.6	335.6	316.5	248.9	202.6	149.4	86.44	62.03
1.65V	356.2	307.8	292.5	232.1	190.5	141.3	82.46	59.50
1.70V	341.1	295.8	282.0	225.0	185.1	137.9	80.82	58.36
1.75V	314.9	275.6	264.3	212.9	175.9	132.1	78.01	56.52
1.80V	288.5	255.2	246.7	201.4	167.6	126.5	75.19	54.68
1.85V	247.7	217.4	209.0	173.2	145.5	111.9	67.93	49.85



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

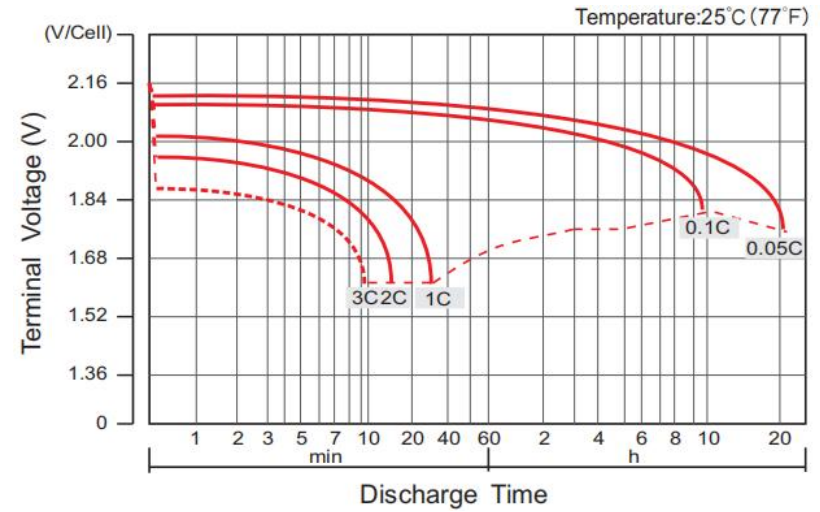
Model: GW12-450W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	721.4	625.0	595.2	474.4	389.5	290.2	162.3	117.4
1.65V	671.4	586.4	561.7	450.0	371.7	278.3	156.2	113.5
1.70V	649.3	568.8	546.0	439.6	363.7	272.7	153.7	111.9
1.75V	609.3	537.5	518.6	420.6	349.1	263.7	149.5	108.9
1.80V	567.1	504.6	489.7	401.9	335.9	254.4	145.0	105.9
1.85V	494.0	435.8	420.5	349.3	294.3	227.0	131.9	97.41

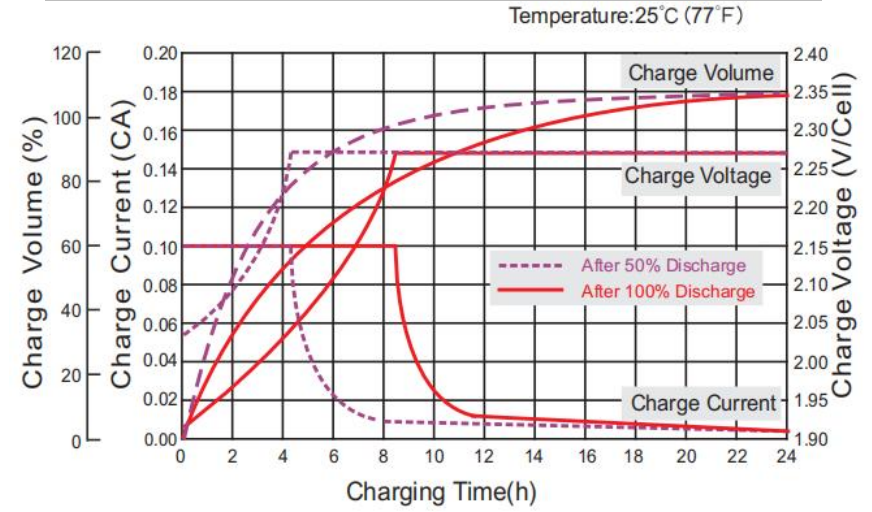


Constant Power Discharge
W/Cell (@ 77°F/25°C)

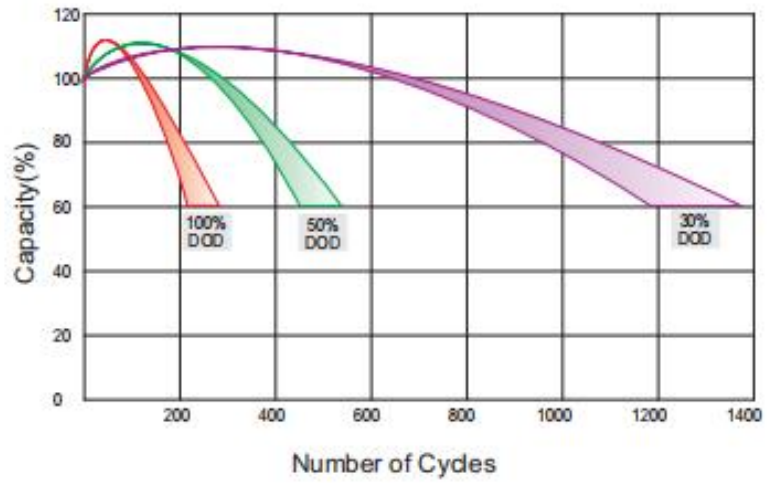
Discharge Characteristics Curve



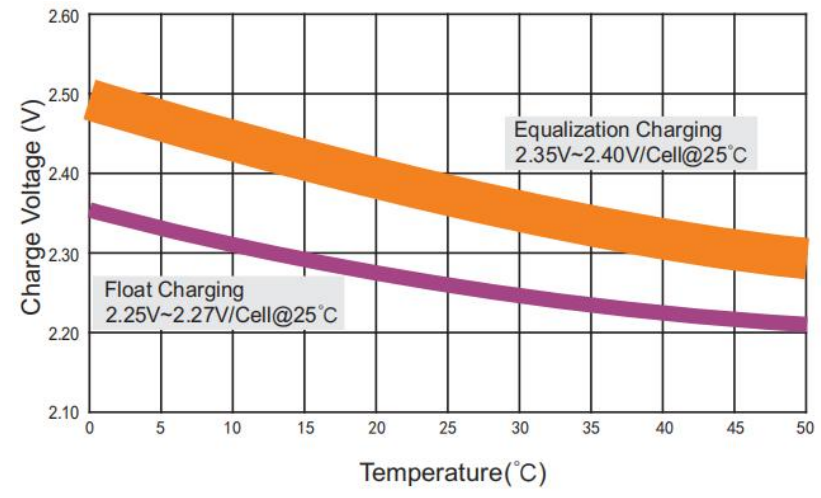
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

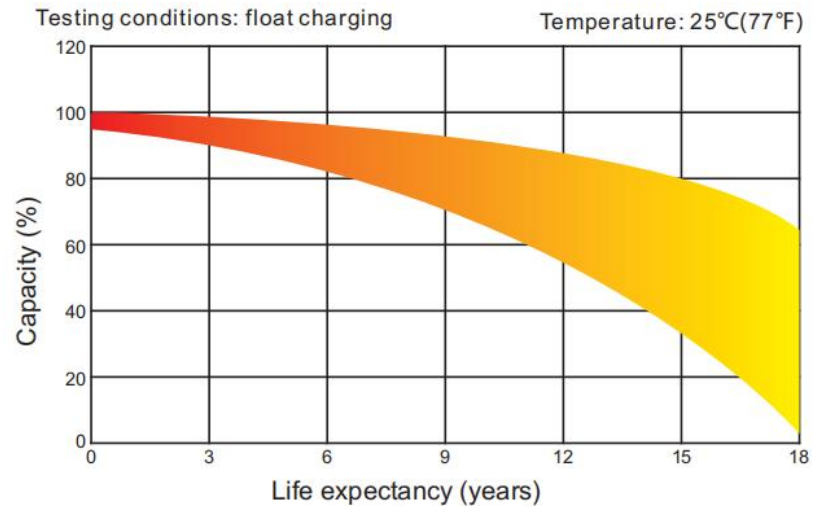


Relationship Between Charging Voltage and Temperature

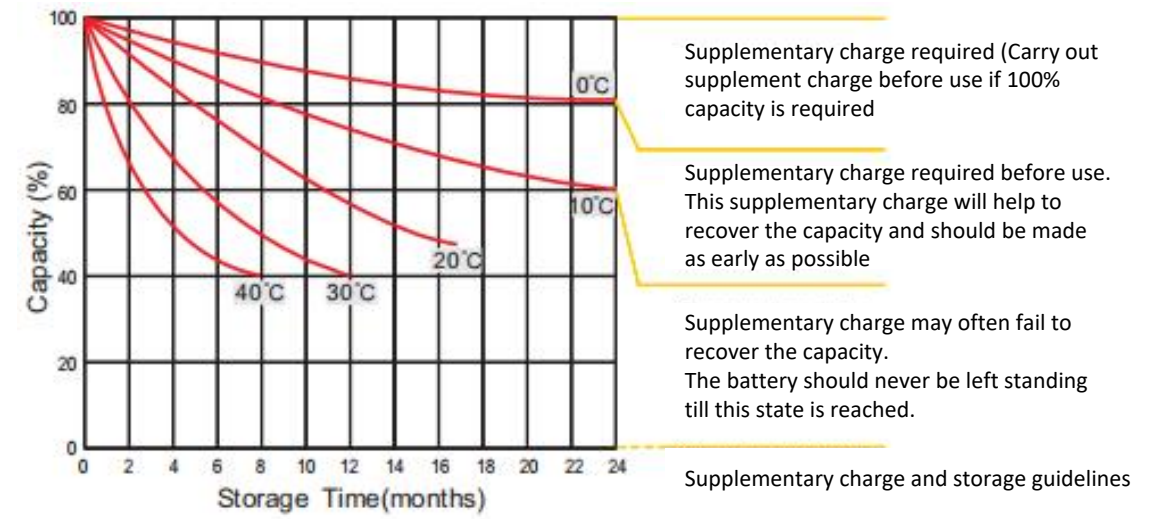


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

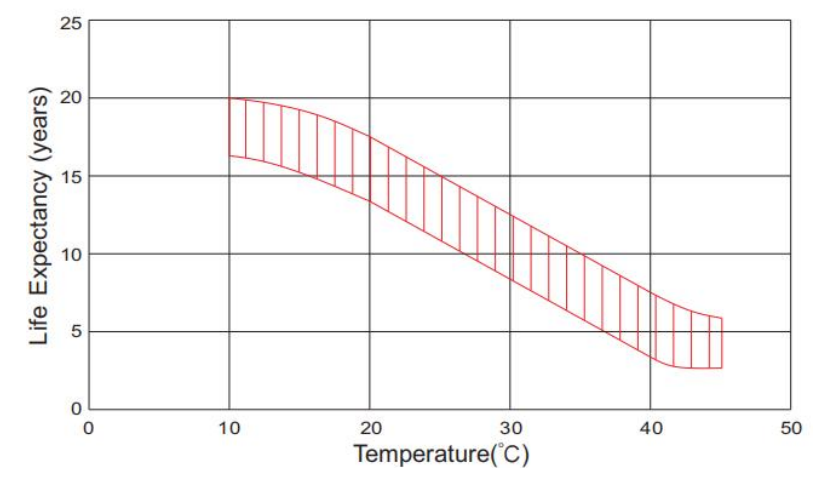
Life Characteristics of Standby Use



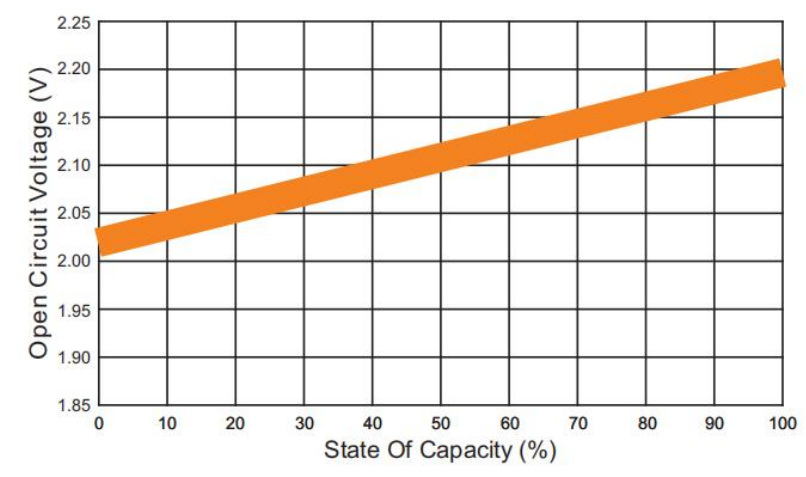
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-570W(12V 150Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

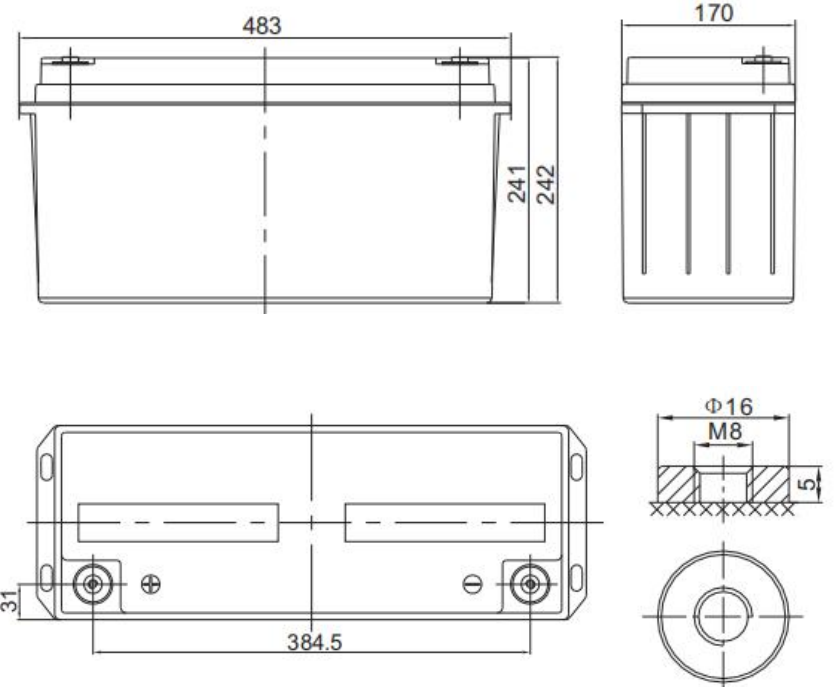
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-570W(12V 150Ah)
Length	483±2mm (19.0 inches)
Width	170±2mm (6.69 inches)
Height	241±2mm (9.49 inches)
Total Height	242±2mm (9.53 inches)
Weight	Approx. 43.0Kg (Tolerance±5%)
Terminal	Default F12(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F12 Terminal

GW12-570W Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Separator: Improved AGM separator increases deep cycle life.

Safety Valve: Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


Features

Parameters	GW12-570W (12V 150Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	570W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤3.8 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1500A (5 sec)
Max. Charging Current	45.0A
Short Circuit Current	3100A
Reference Capacity	C10: 141.5Ah C20: 150.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-570W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	453.0	406.6	380.4	315.2	256.7	189.2	109.5	78.57
1.65V	411.1	372.9	351.6	293.2	241.3	179.0	104.4	75.37
1.70V	393.6	358.4	338.9	285.0	234.5	174.7	102.4	73.91
1.75V	363.4	333.9	317.7	269.6	222.8	167.3	98.80	71.59
1.80V	333.0	309.2	296.5	255.1	212.3	160.2	95.24	69.26
1.85V	285.8	263.4	251.2	219.4	184.3	141.7	86.04	63.15



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

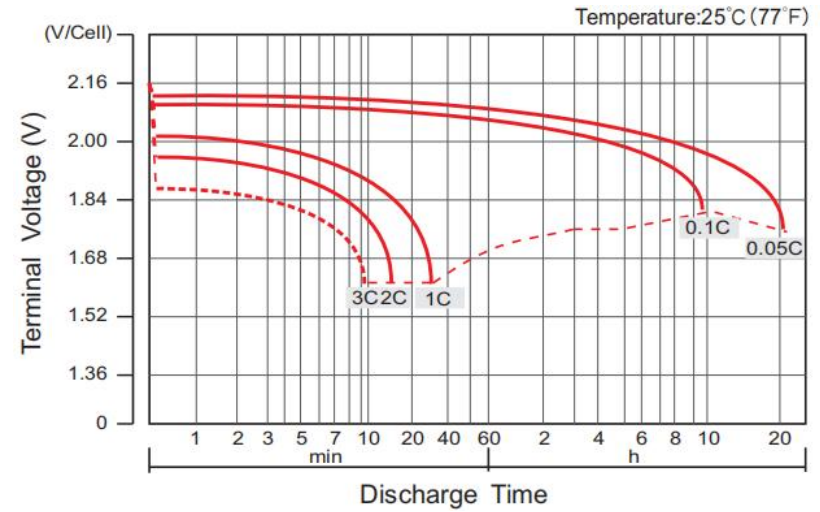
Model: GW12-570W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	832.5	757.3	715.5	600.8	493.3	367.6	205.6	148.7
1.65V	774.8	710.4	675.2	570.0	470.8	352.5	197.9	143.8
1.70V	749.3	689.1	656.3	556.8	460.6	345.4	194.6	141.7
1.75V	703.2	651.2	623.4	532.7	442.1	334.0	189.3	137.9
1.80V	654.5	611.3	588.7	509.0	425.5	322.3	183.7	134.1
1.85V	570.1	528.0	505.4	442.5	372.8	287.5	167.0	123.4

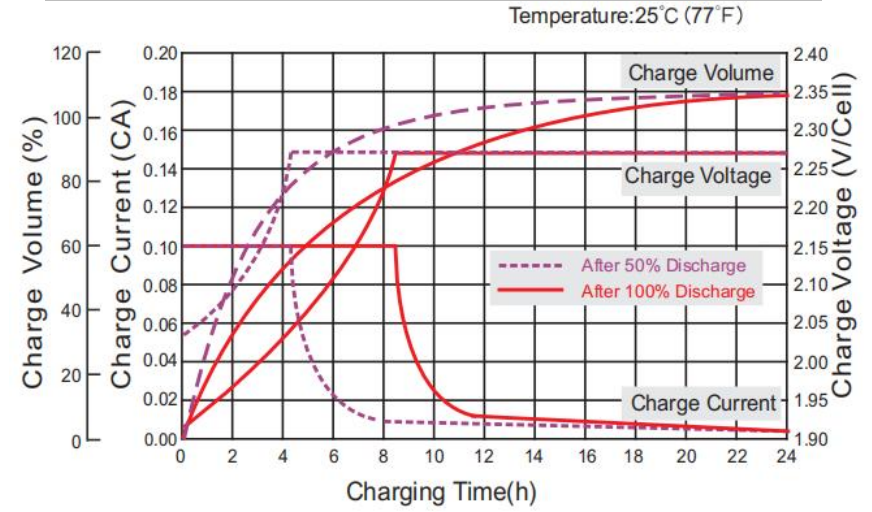


Constant Power Discharge
W/Cell (@ 77°F/25°C)

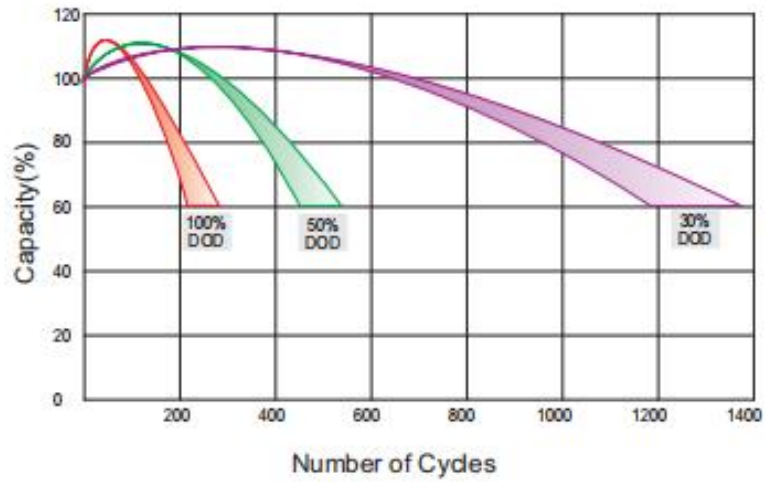
Discharge Characteristics Curve



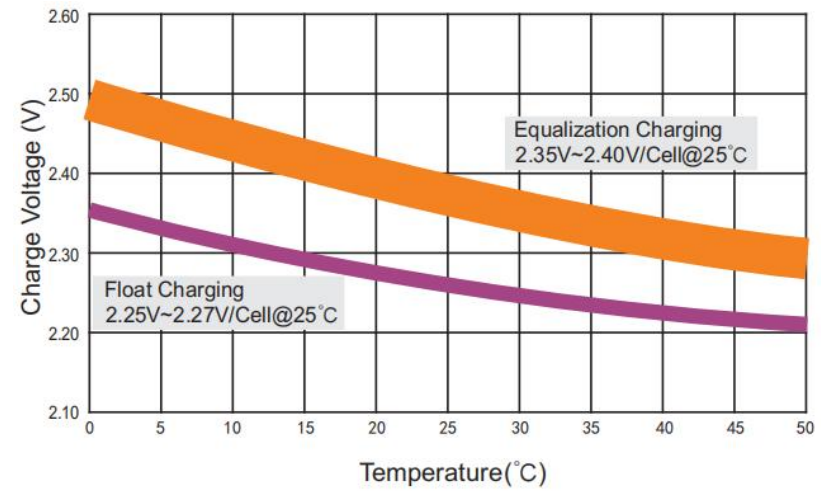
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

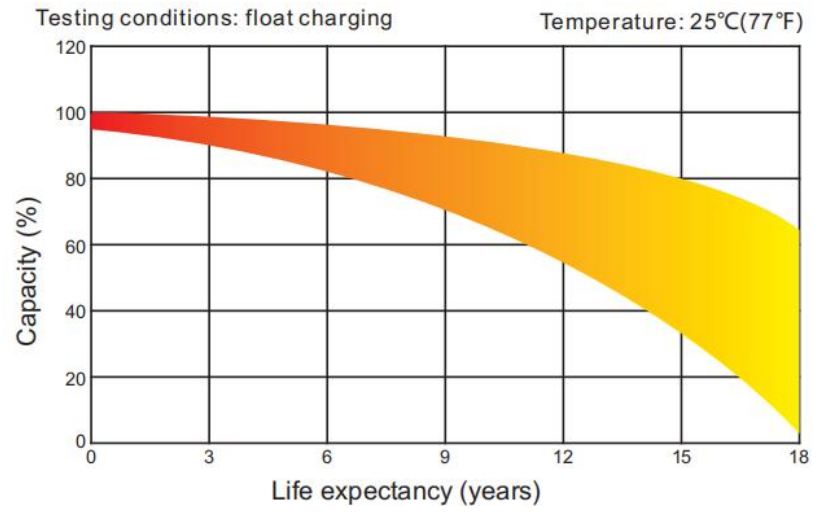


Relationship Between Charging Voltage and Temperature

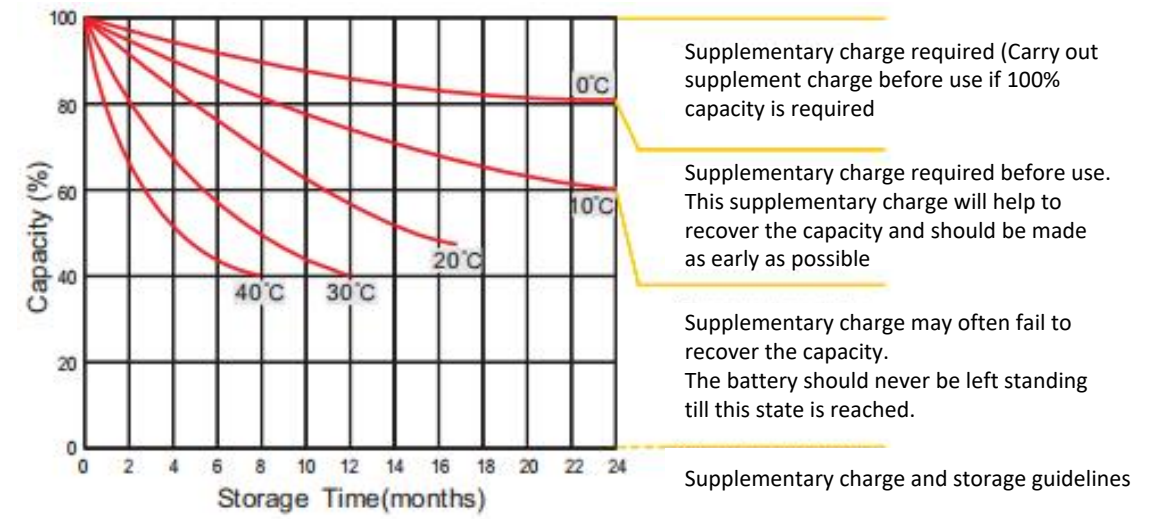


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

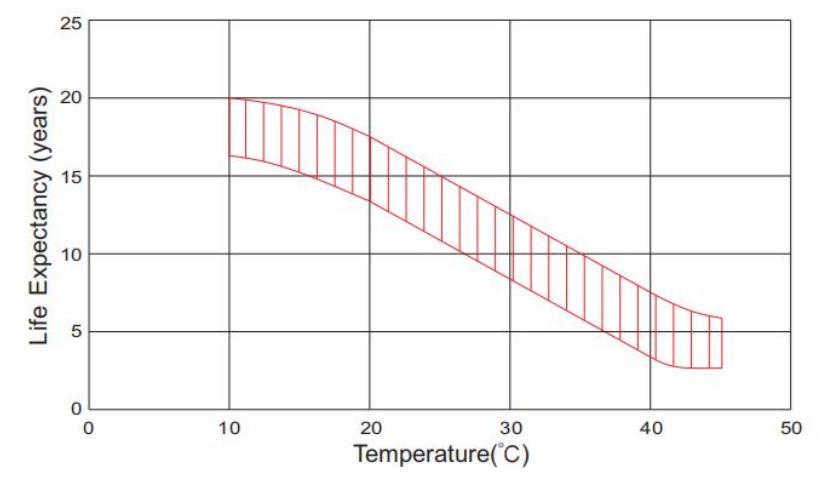
Life Characteristics of Standby Use



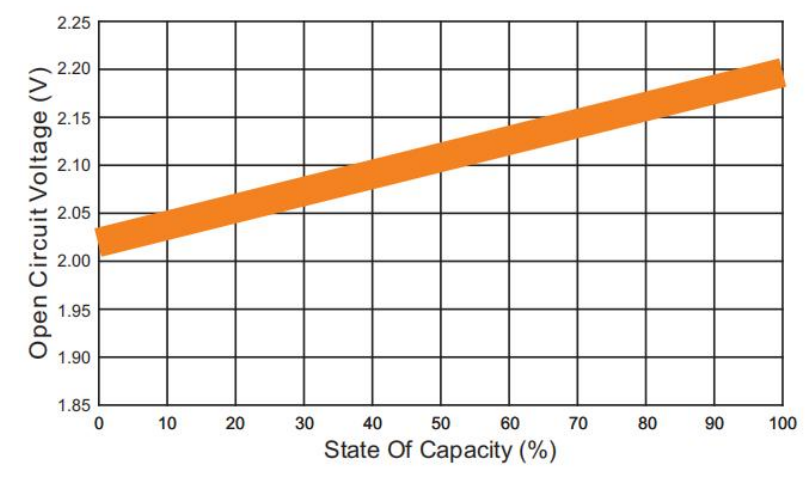
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-570WL(12V 150Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

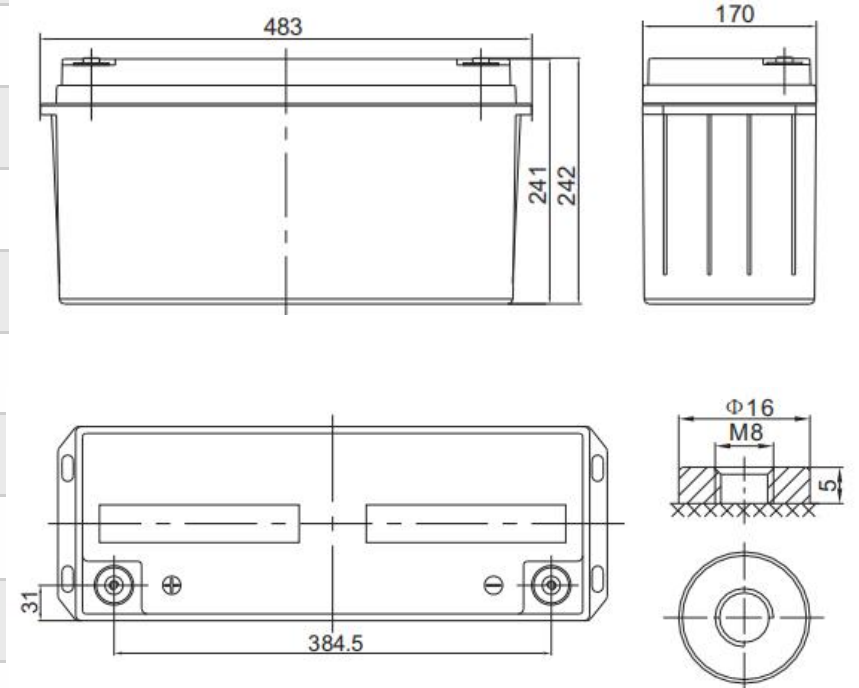
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-570WL(12V 150Ah)
Length	483±2mm (19.0 inches)
Width	170±2mm (6.69 inches)
Height	241±2mm (9.49 inches)
Total Height	242±2mm (9.53 inches)
Weight	Approx. 46.0Kg (Tolerance±5%)
Terminal	Default F12(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F12 Terminal

GW12-570WL Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Separator: Improved AGM separator increases deep cycle life.

Safety Valve: Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


Features

Parameters	GW12-570WL (12V 150Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	570W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤3.8 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1500A (5 sec)
Max. Charging Current	45.0A
Short Circuit Current	3100A
Reference Capacity	C10: 141.5Ah C20: 150.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-570WL Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	467.1	414.9	384.2	315.2	256.7	189.2	109.5	78.57
1.65V	423.8	380.5	355.1	293.2	241.3	179.0	104.4	75.37
1.70V	405.8	365.7	342.3	285.0	234.5	174.7	102.4	73.91
1.75V	374.7	340.7	320.9	269.6	222.8	167.3	98.80	71.59
1.80V	343.3	315.5	299.5	255.1	212.3	160.2	95.24	69.26
1.85V	294.6	268.8	253.8	219.4	184.3	141.7	86.04	63.15



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

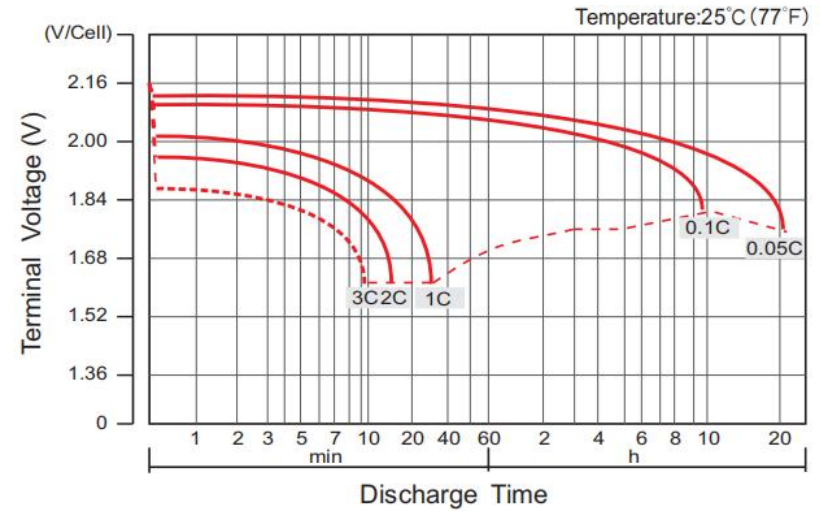
Model: GW12-570WL

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	858.2	772.7	722.7	600.8	493.3	367.6	205.6	148.7
1.65V	798.8	724.9	682.0	570.0	470.8	352.5	197.9	143.8
1.70V	772.5	703.2	663.0	556.8	460.6	345.4	194.6	141.7
1.75V	724.9	664.5	629.7	532.7	442.1	334.0	189.3	137.9
1.80V	674.7	623.8	594.6	509.0	425.5	322.3	183.7	134.1
1.85V	587.7	538.8	510.5	442.5	372.8	287.5	167.0	123.4

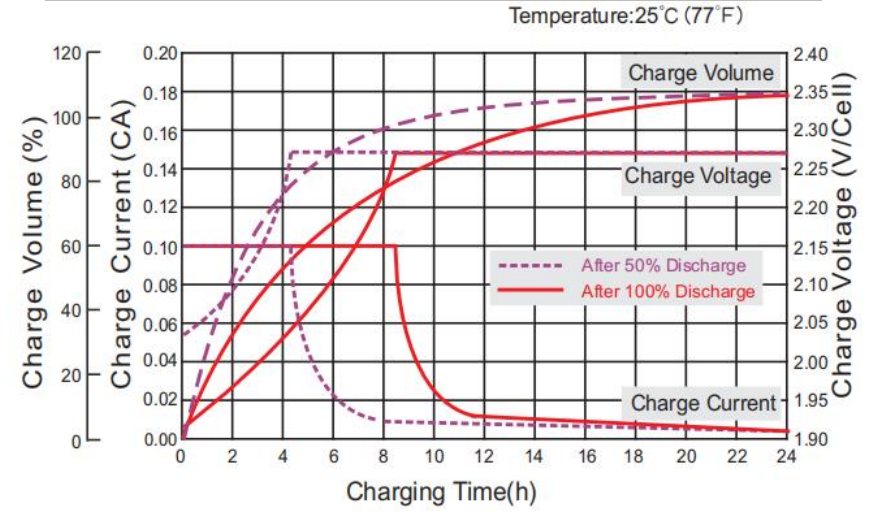


Constant Power Discharge
W/Cell (@ 77°F/25°C)

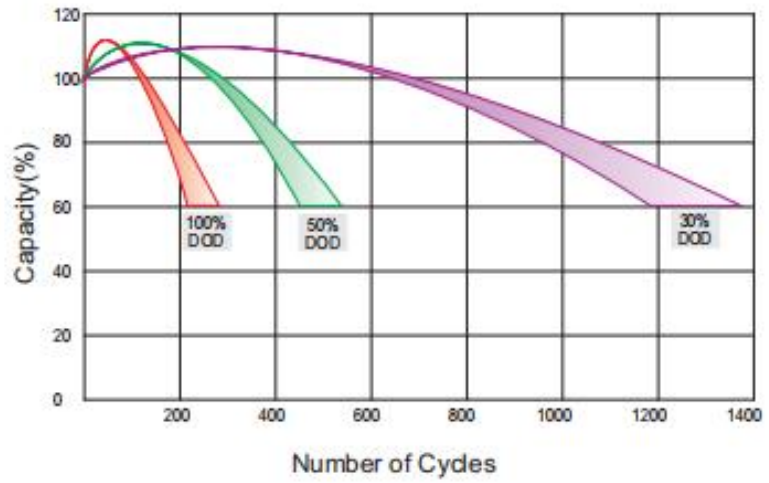
Discharge Characteristics Curve



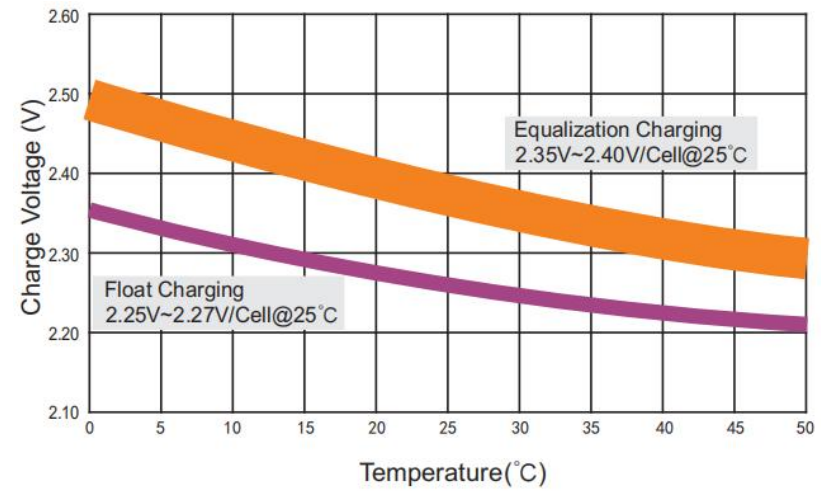
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

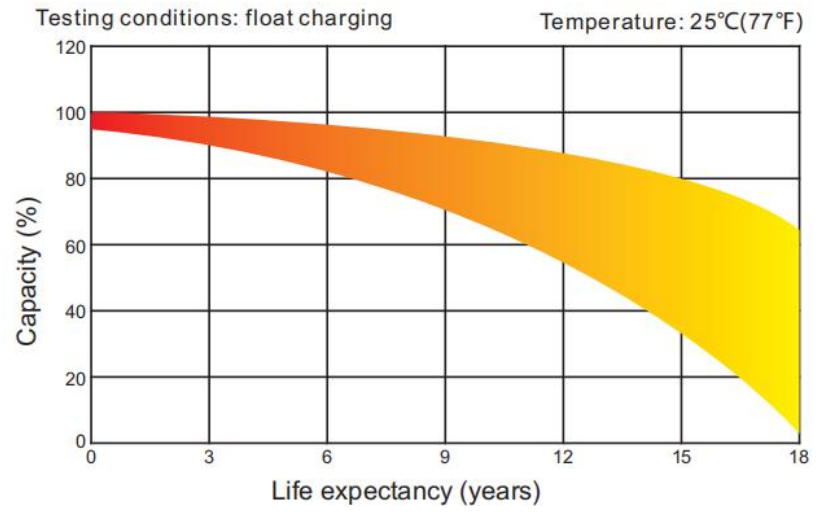


Relationship Between Charging Voltage and Temperature

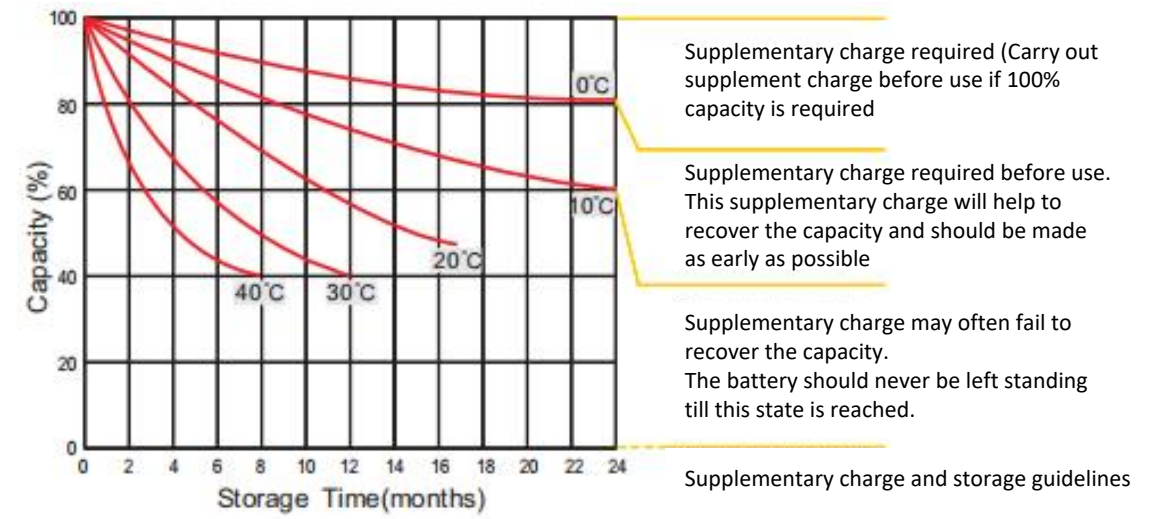


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

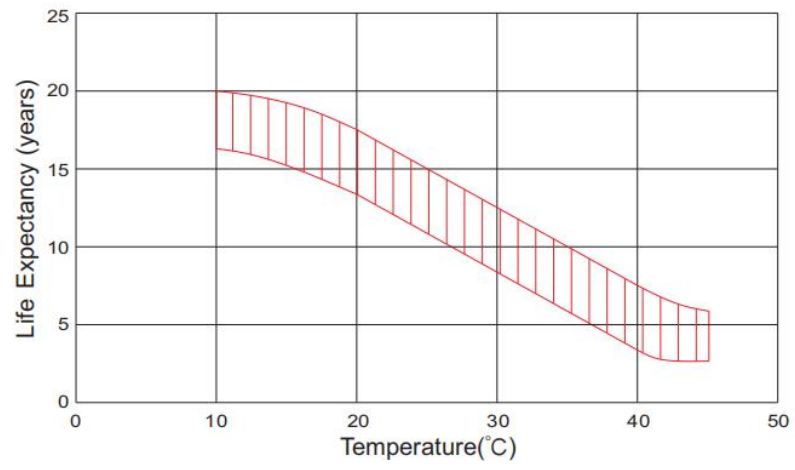
Life Characteristics of Standby Use



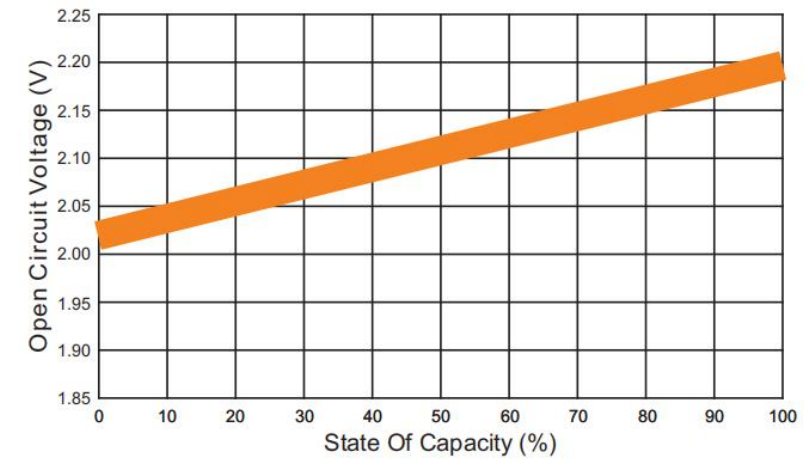
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy



Model: GW12-600W(12V 180Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

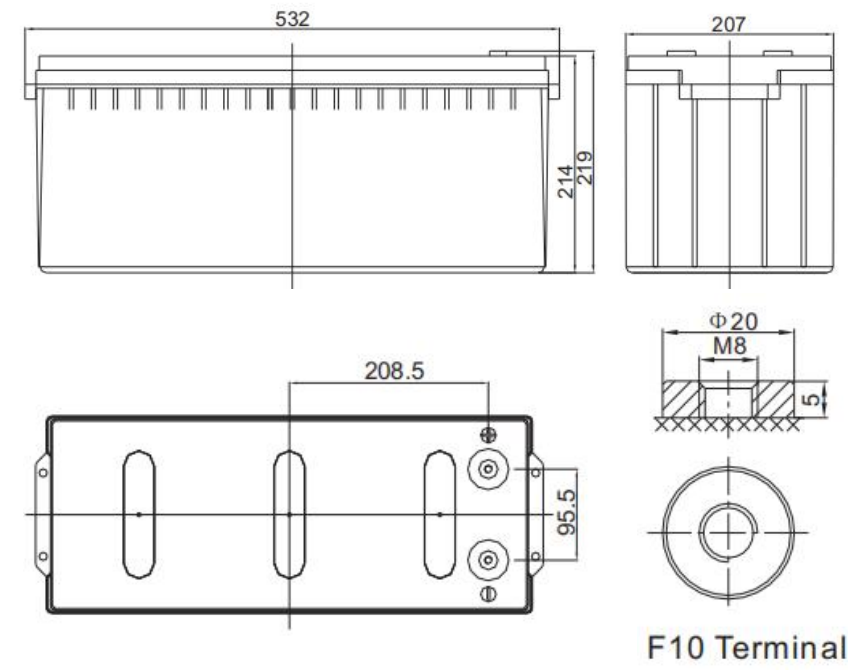
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-600W(12V 180Ah)
Length	532±2mm (20.9 inches)
Width	207±2mm (8.15 inches)
Height	214±2mm (8.43 inches)
Total Height	219±2mm (8.62 inches)
Weight	Approx. 53.0Kg (Tolerance±5%)
Terminal	Default F10(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


GW12-600W Dimension

Parameters	GW12-600W (12V 180Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	600W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤3.8 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1800A (5 sec)
Max. Charging Current	54.0A
Short Circuit Current	3200A
Reference Capacity	C10: 170.0Ah C20: 180.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-600W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	476.9	428.0	400.4	331.8	270.2	199.1	115.2	82.70
1.65V	432.7	392.5	370.0	309.4	253.9	188.4	109.9	79.33
1.70V	414.3	377.3	356.7	300.0	246.8	183.9	107.7	77.80
1.75V	382.6	351.4	334.4	283.8	234.5	176.1	104.0	75.35
1.80V	350.5	325.5	312.1	268.5	223.5	168.6	100.3	72.90
1.85V	300.8	277.2	264.5	230.9	193.9	149.2	90.57	66.47



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

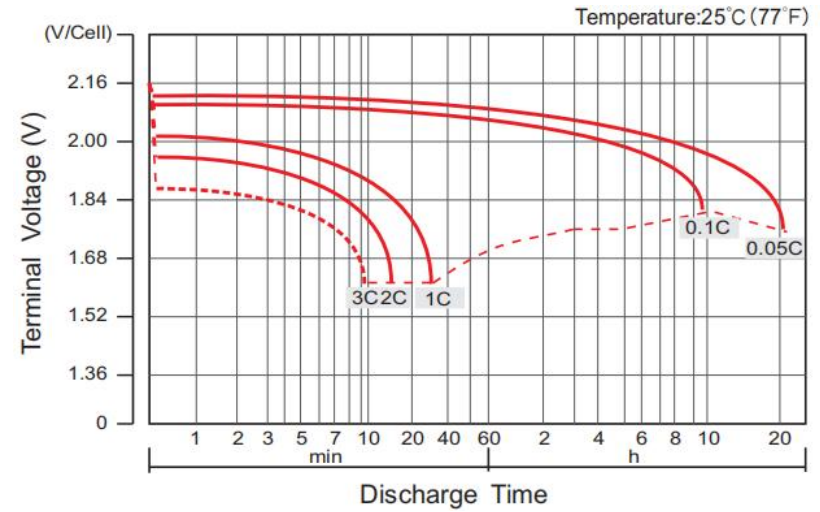
Model: GW12-600W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	876.2	797.1	753.1	632.4	519.2	386.9	216.4	156.5
1.65V	815.5	747.8	710.7	600.0	495.6	371.0	208.3	151.3
1.70V	788.7	725.4	690.9	586.0	484.9	363.6	204.9	149.2
1.75V	740.1	685.5	656.2	560.7	465.4	351.6	199.3	145.2
1.80V	688.9	643.4	619.6	535.8	447.9	339.2	193.3	141.2
1.85V	600.1	555.8	532.0	465.7	392.4	302.6	175.8	129.9

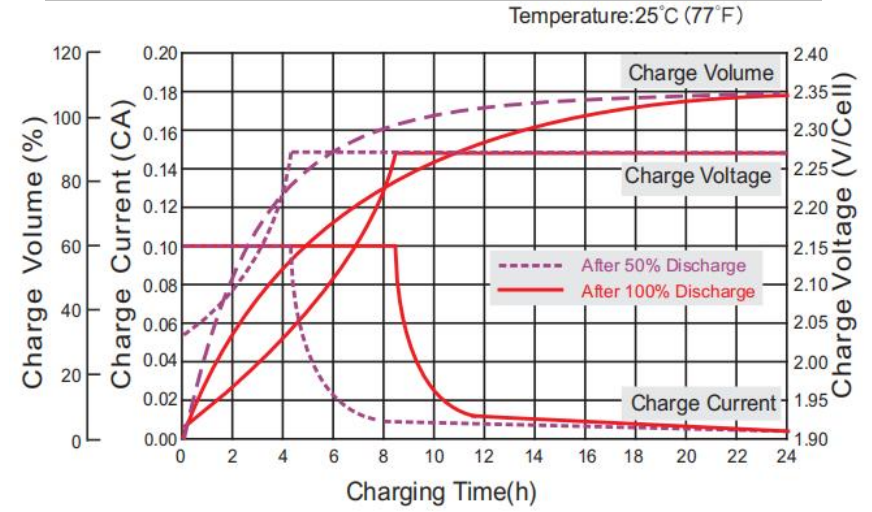


Constant Power Discharge
W/Cell (@ 77°F/25°C)

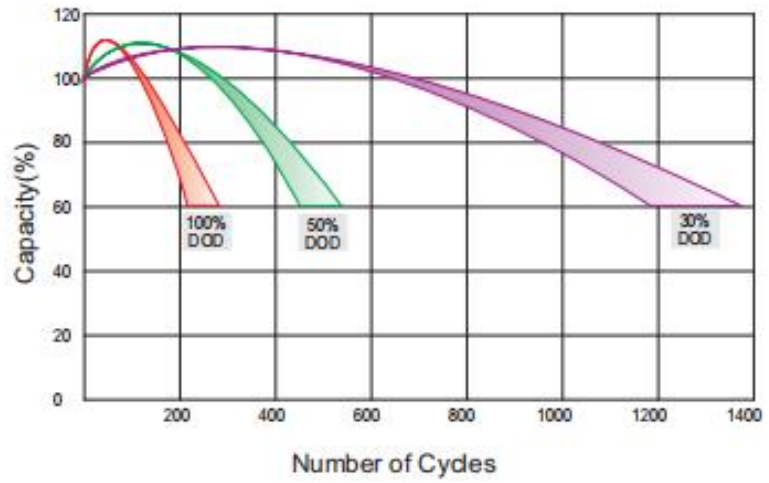
Discharge Characteristics Curve



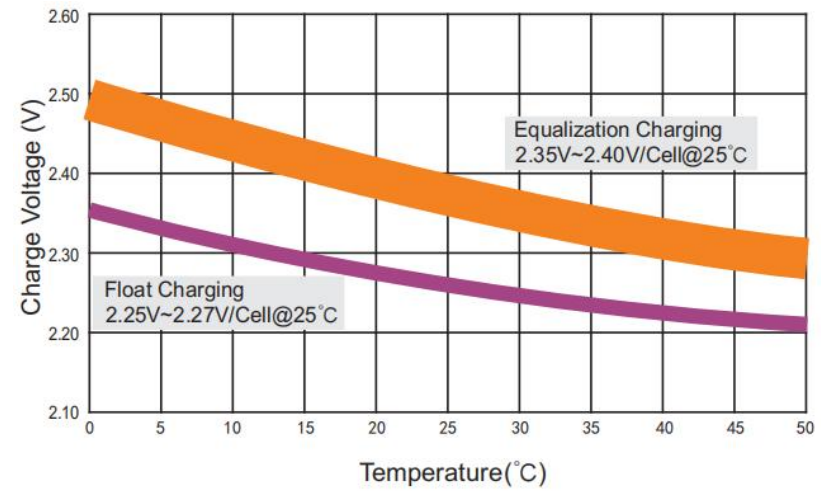
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

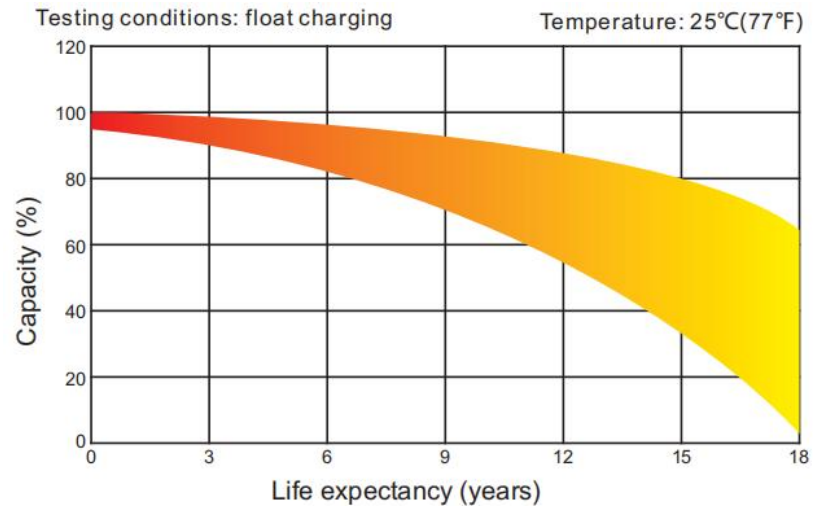


Relationship Between Charging Voltage and Temperature

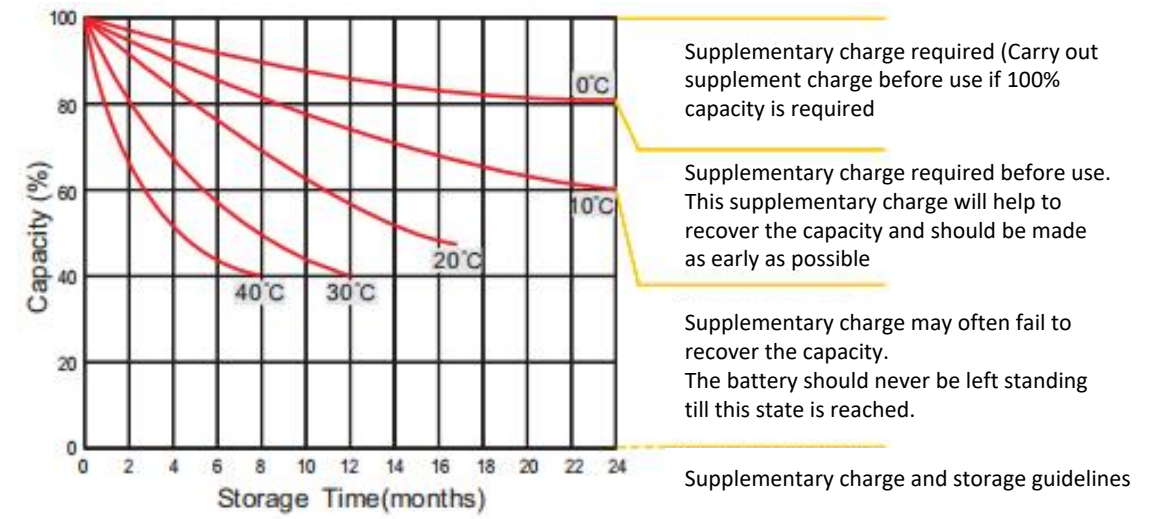


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

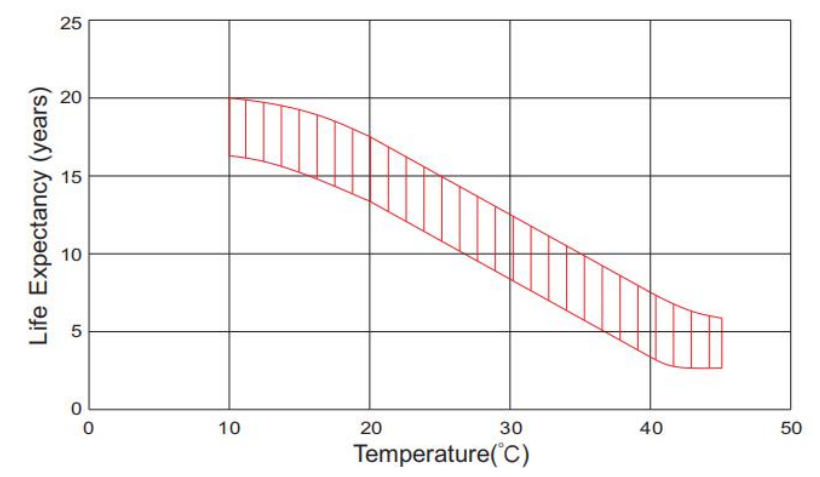
Life Characteristics of Standby Use



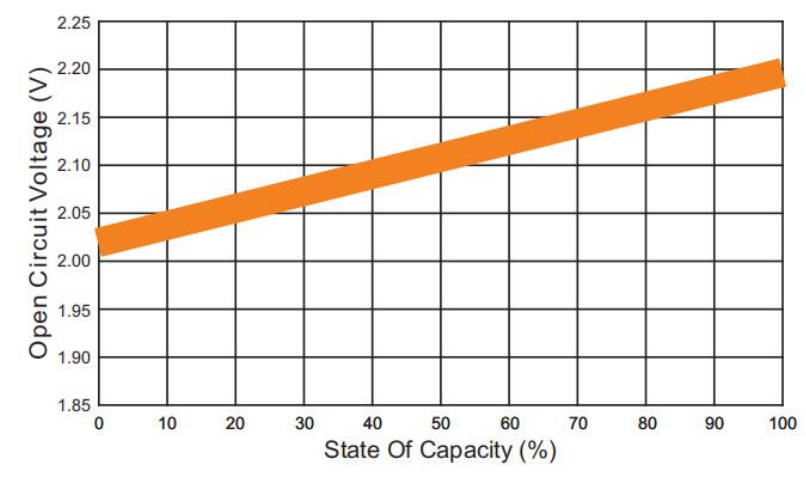
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-600WL(12V 180Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

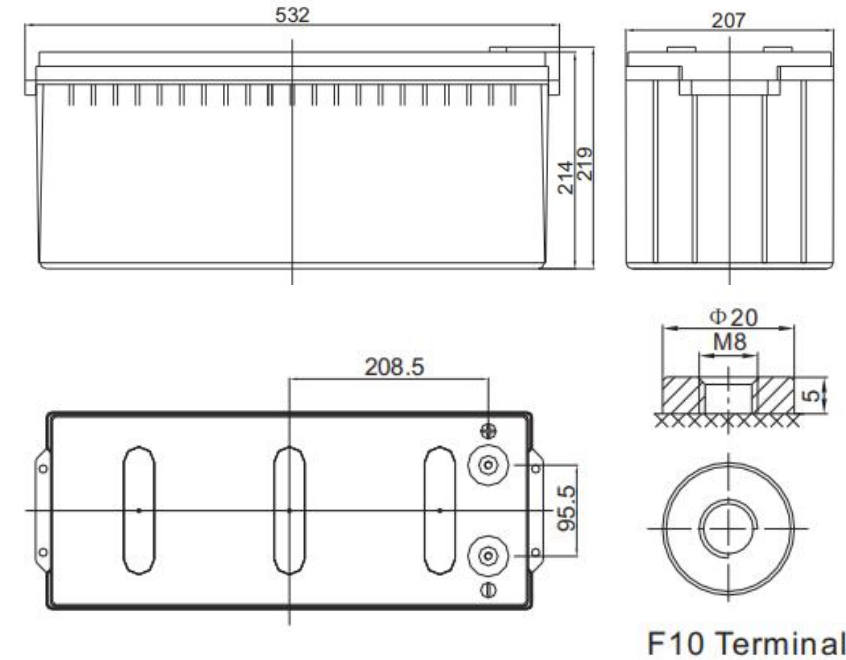
● Laval-Quebec-Canada

● Beirut-Lebanon

● Hongkong-China

● www.connectinglegacy.com

Introduction	GW12-600WL(12V 180Ah)
Length	532±2mm (20.9 inches)
Width	207±2mm (8.15 inches)
Height	214±2mm (8.43 inches)
Total Height	219±2mm (8.62 inches)
Weight	Approx. 56.0Kg (Tolerance±5%)
Terminal	Default F10(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F10 Terminal

GW12-600WL Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.


Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-600WL (12V 180Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	600W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤3.8 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	1800A (5 sec)
Max. Charging Current	54.0A
Short Circuit Current	3200A
Reference Capacity	C10: 170.0Ah C20: 180.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-600WL Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	491.6	436.8	404.4	331.8	270.2	199.1	115.2	82.70
1.65V	446.1	400.5	373.8	309.4	253.9	188.4	109.9	79.33
1.70V	427.2	385.0	360.3	300.0	246.8	183.9	107.7	77.80
1.75V	394.4	358.6	337.8	283.8	234.5	176.1	104.0	75.35
1.80V	361.3	332.1	315.3	268.5	223.5	168.6	100.3	72.90
1.85V	310.1	282.9	267.1	230.9	193.9	149.2	90.57	66.47



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

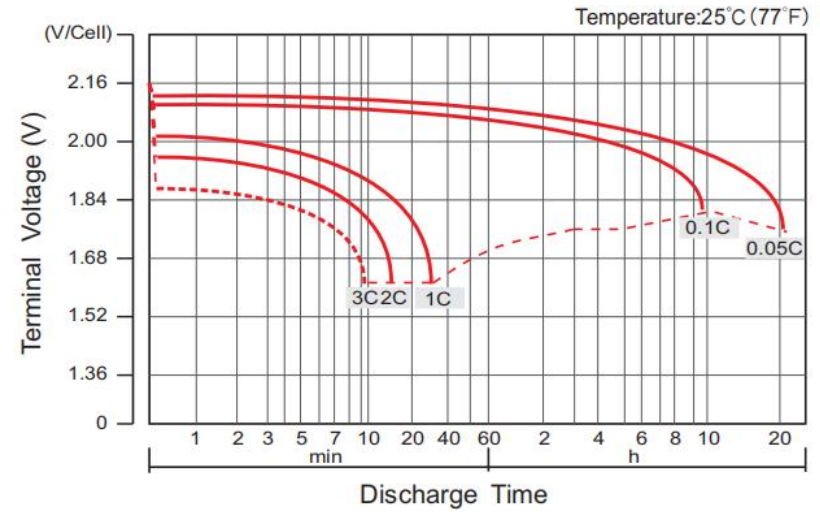
Model: GW12-600WL

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	903.3	813.3	760.7	632.4	519.2	386.9	216.4	156.5
1.65V	840.8	763.1	717.9	600.0	495.6	371.0	208.3	151.3
1.70V	813.1	740.2	697.8	586.0	484.9	363.6	204.9	149.2
1.75V	763.0	699.5	662.8	560.7	465.4	351.6	199.3	145.2
1.80V	710.2	656.6	625.9	535.8	447.9	339.2	193.3	141.2
1.85V	618.7	567.1	537.4	465.7	392.4	302.6	175.8	129.9

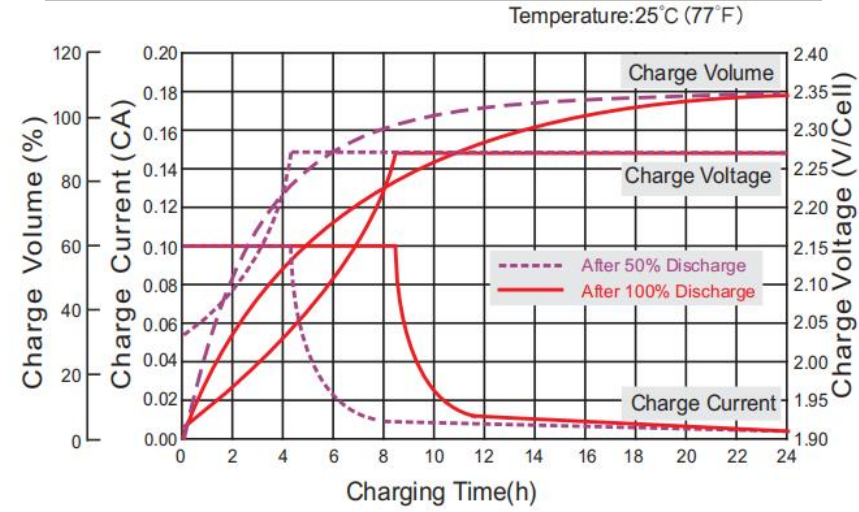


Constant Power Discharge
W/Cell (@ 77°F/25°C)

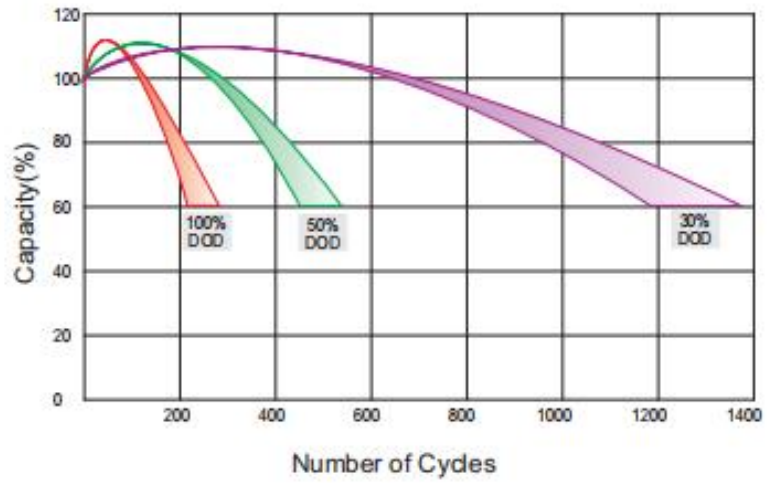
Discharge Characteristics Curve



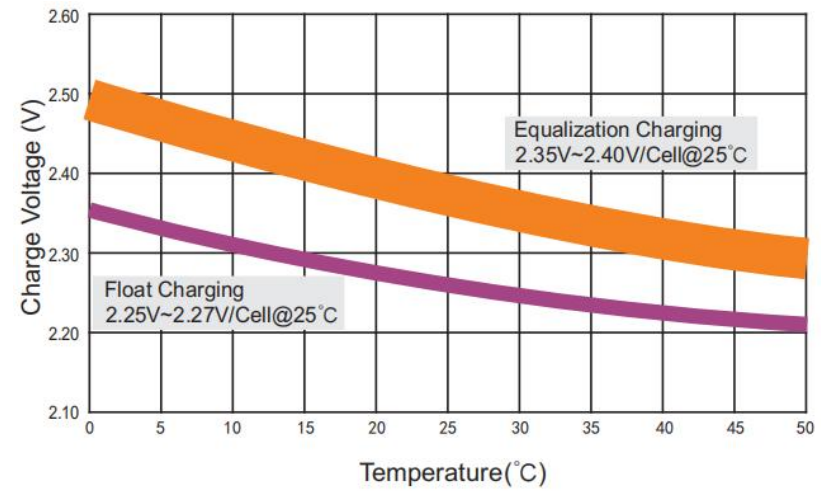
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

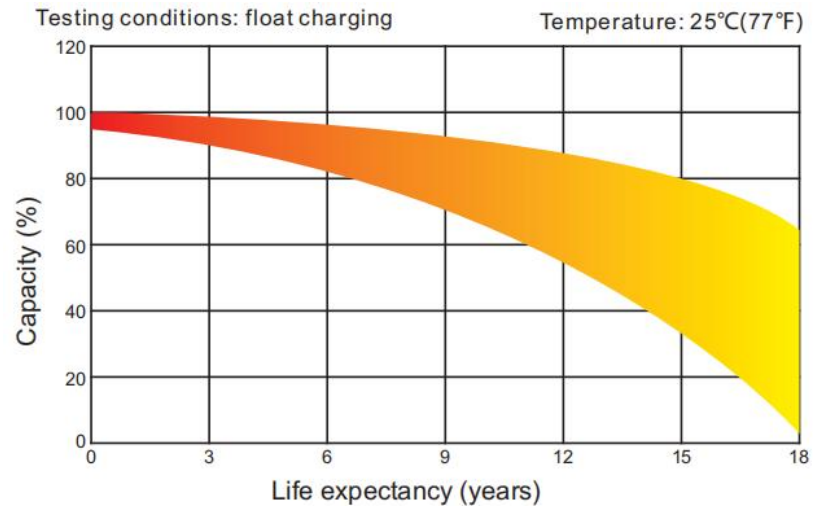


Relationship Between Charging Voltage and Temperature

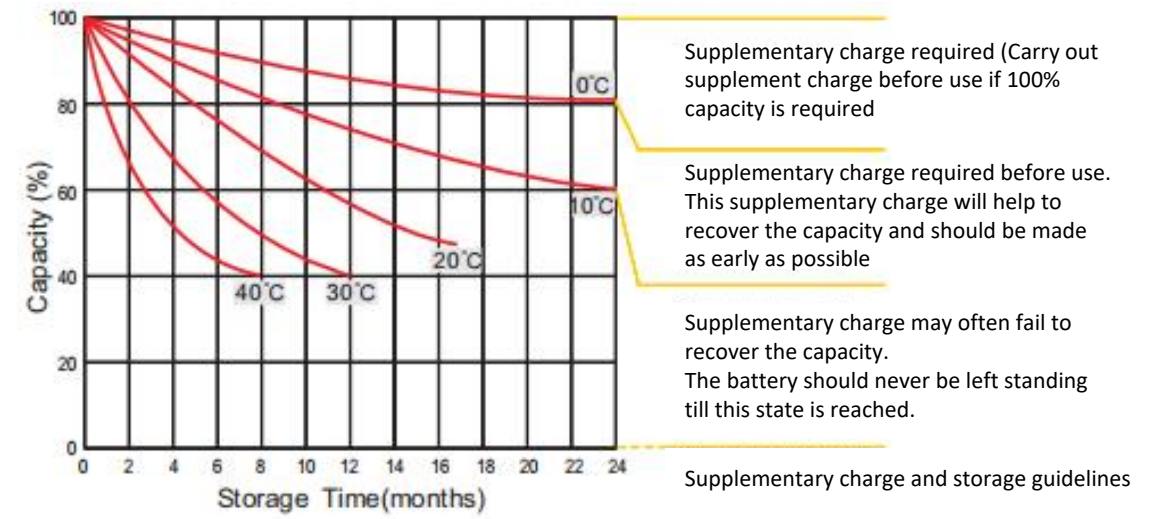


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

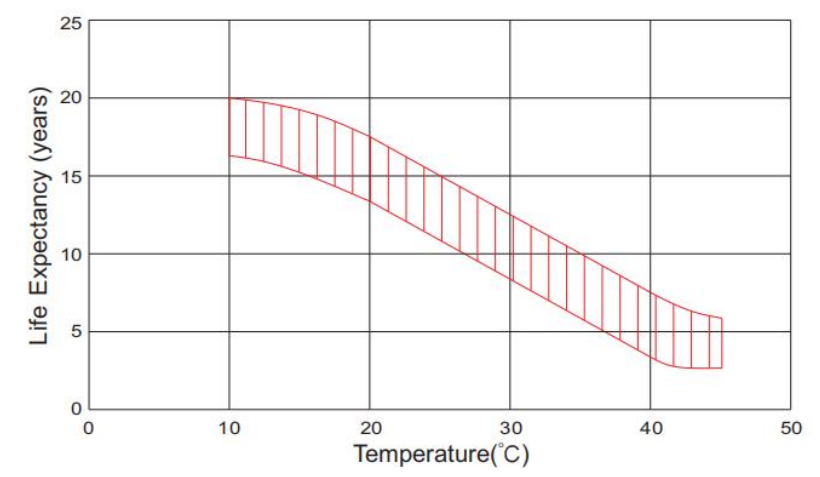
Life Characteristics of Standby Use



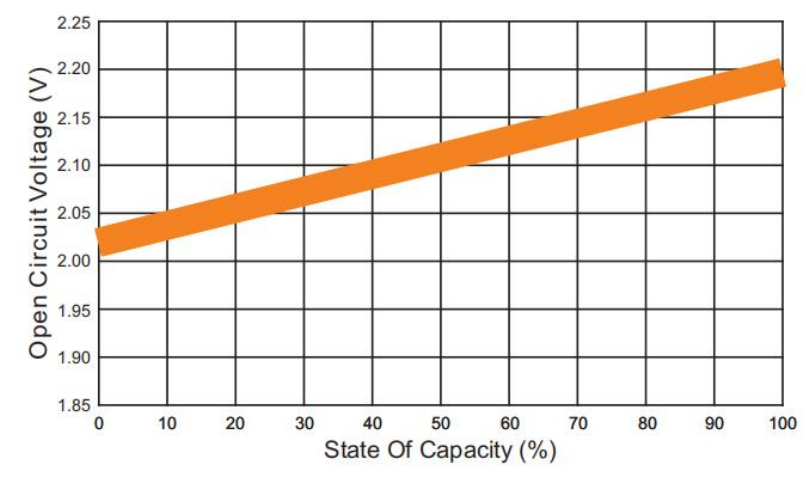
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-650W(12V 200Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

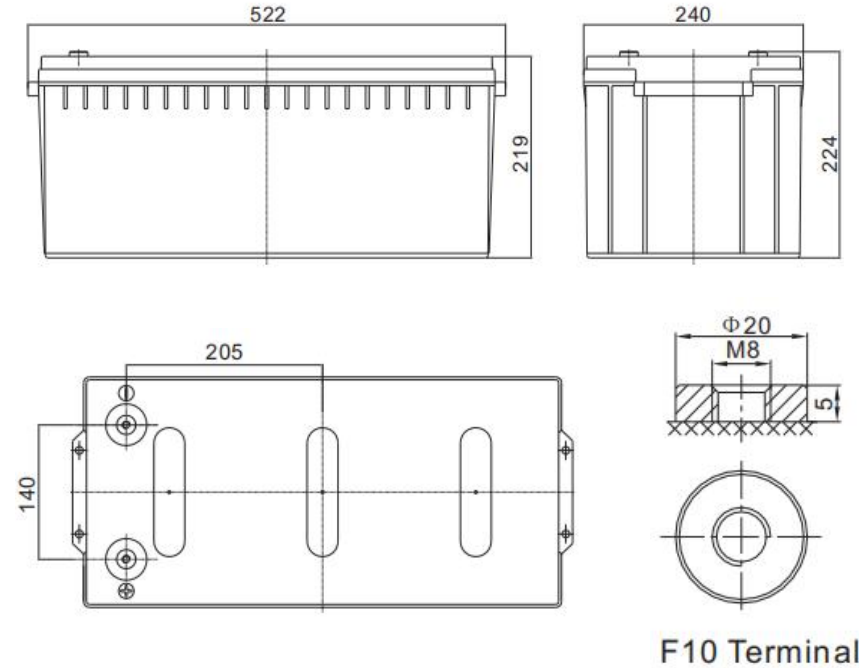
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-650W(12V 200Ah)
Length	522±2mm (20.6 inches)
Width	240±2mm (9.45 inches)
Height	219±2mm (8.62 inches)
Total Height	224±2mm (8.82 inches)
Weight	Approx. 58.0Kg (Tolerance±5%)
Terminal	Default F10(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


GW12-650W Dimension

Parameters	GW12-650W (12V 200Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	650W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤3.5 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	2000A (5 sec)
Max. Charging Current	60.0A
Short Circuit Current	3850A
Reference Capacity	C10: 190.0Ah C20: 200.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-650W Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	573.4	500.6	457.1	359.5	292.7	215.7	124.9	89.60
1.65V	520.3	459.1	422.5	335.2	275.1	119.1	119.1	85.95
1.70V	498.2	441.3	407.3	325.0	267.4	116.7	116.7	84.29
1.75V	460.0	411.0	381.3	307.5	254.0	112.7	112.7	81.64
1.80V	421.4	380.7	356.4	290.9	242.1	108.6	108.6	78.98
1.85V	361.7	324.3	301.9	250.2	210.1	98.12	98.12	72.01



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

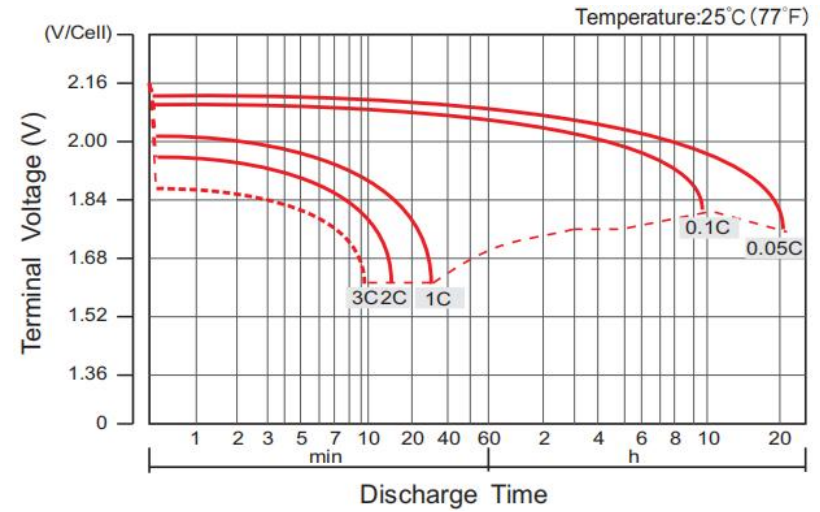
Model: GW12-650W

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	1054	932.3	859.8	685.2	562.5	419.2	234.5	169.6
1.65V	980.6	874.6	811.3	650.0	536.9	402.0	225.7	163.9
1.70V	948.3	848.4	788.7	634.9	525.3	393.9	222.0	161.6
1.75V	889.9	801.7	749.1	607.5	504.2	380.9	215.9	157.3
1.80V	828.3	752.6	707.4	580.5	485.2	367.5	209.4	153.0
1.85V	721.5	650.0	607.4	504.6	425.2	327.8	190.5	140.7

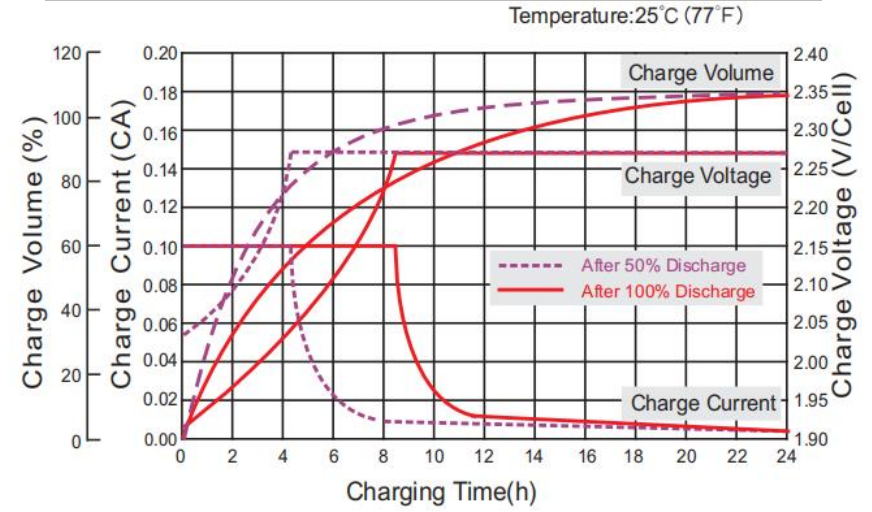


Constant Power Discharge
W/Cell (@ 77°F/25°C)

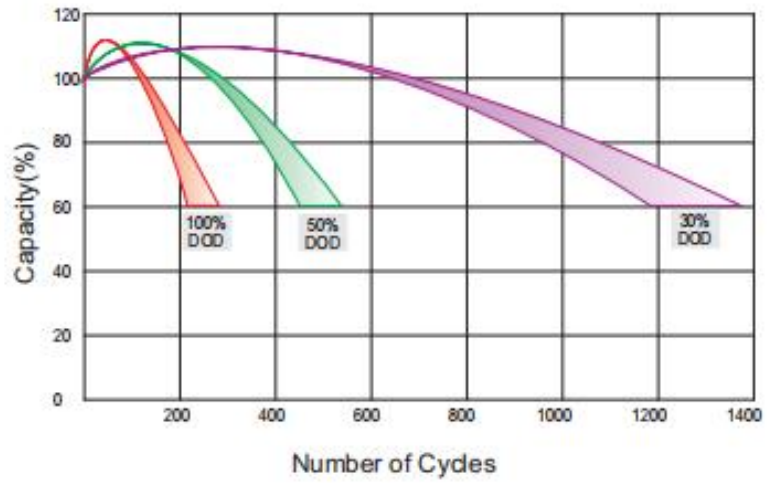
Discharge Characteristics Curve



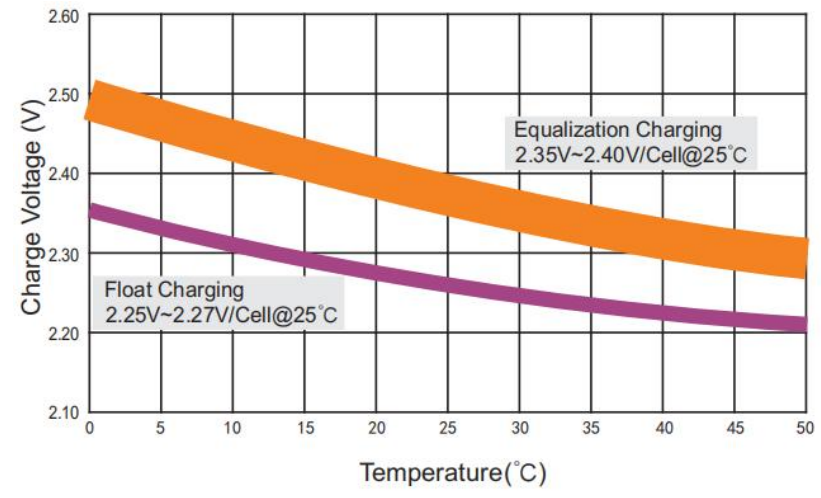
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

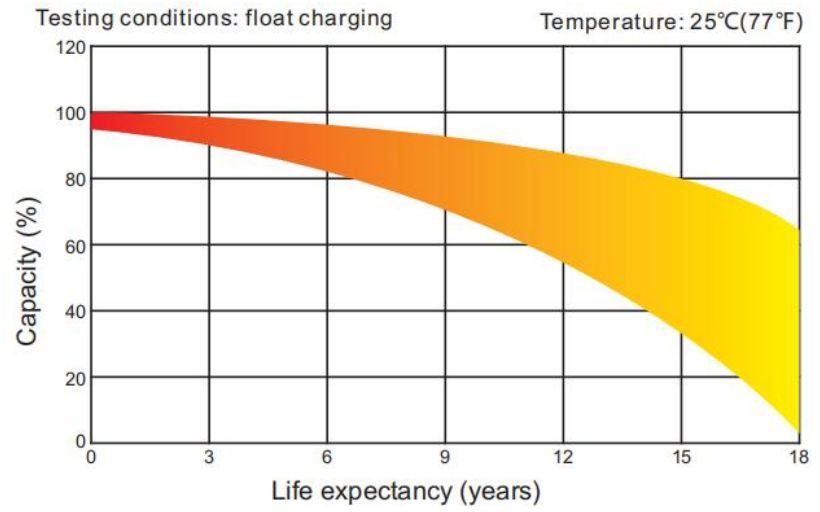


Relationship Between Charging Voltage and Temperature

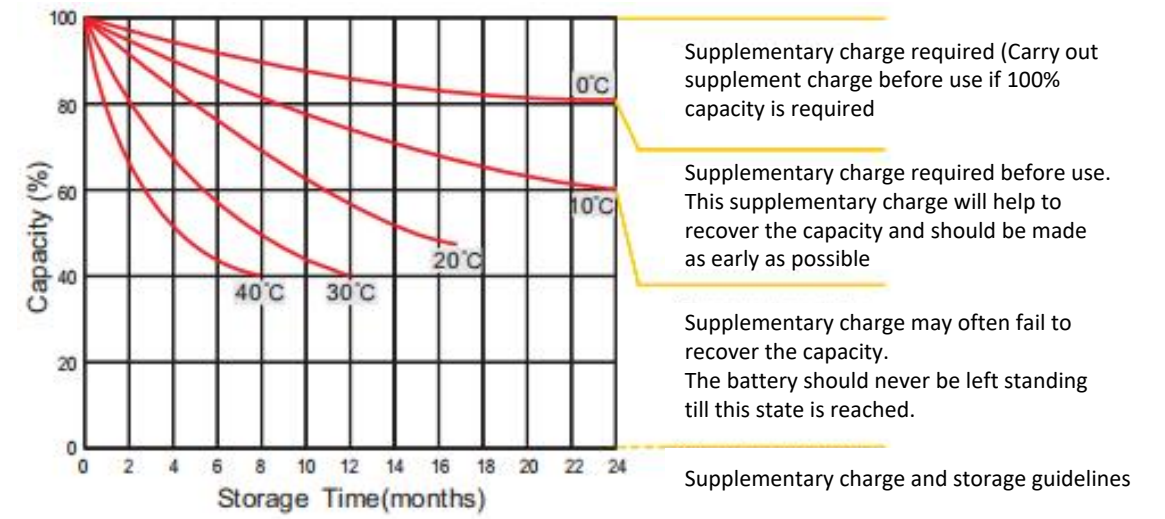


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

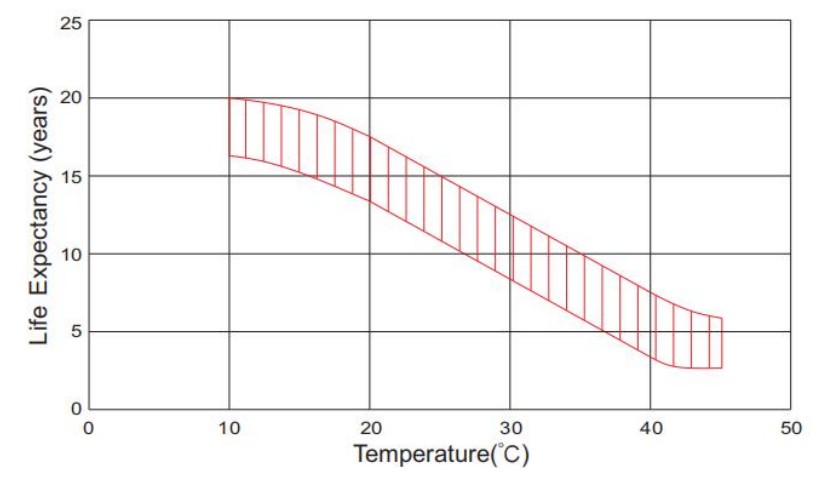
Life Characteristics of Standby Use



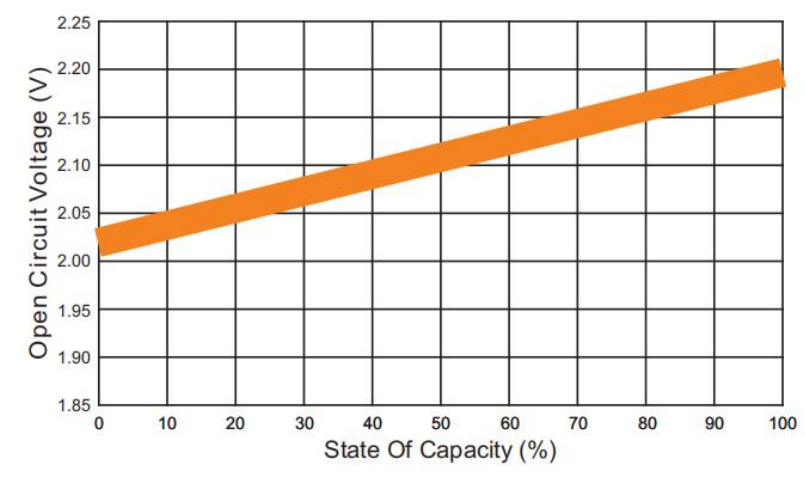
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-650WL(12V 200Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

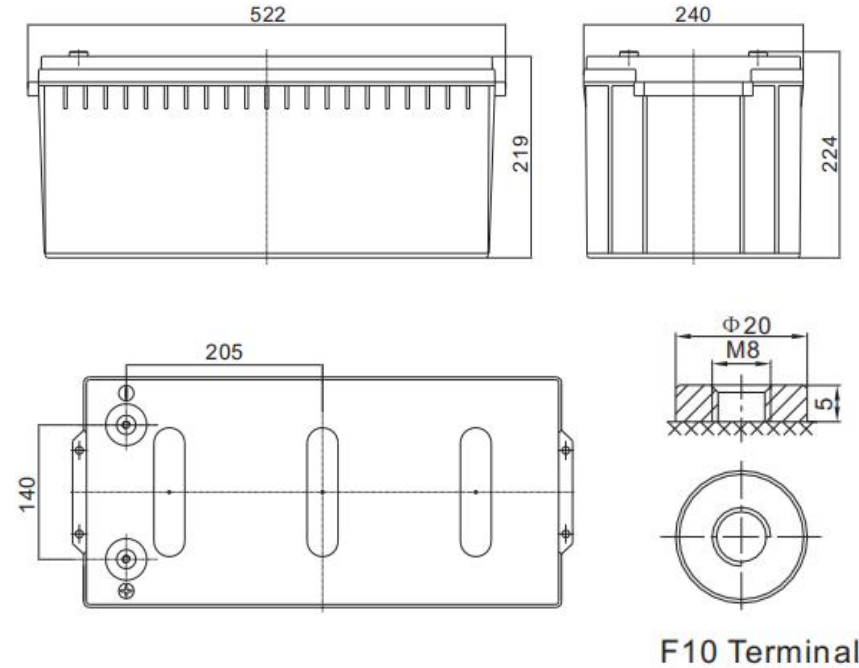
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-650WL(12V 200Ah)
Length	522±2mm (20.6 inches)
Width	240±2mm (9.45 inches)
Height	219±2mm (8.62 inches)
Total Height	224±2mm (8.82 inches)
Weight	Approx. 61.0Kg (Tolerance±5%)
Terminal	Default F10(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F10 Terminal

GW12-650WL Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Features

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.


Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-650WL (12V 200Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	650W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤3.5 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	2000A (5 sec)
Max. Charging Current	60.0A
Short Circuit Current	3850A
Reference Capacity	C10: 190.0Ah C20: 200.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-650WL Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	591.1	510.8	461.7	359.5	292.7	215.7	124.9	89.60
1.65V	536.4	468.4	426.7	335.2	275.1	119.1	119.1	85.95
1.70V	513.6	450.3	411.4	325.0	267.4	116.7	116.7	84.29
1.75V	474.2	419.4	385.7	307.5	254.0	112.7	112.7	81.64
1.80V	434.4	388.4	360.0	290.9	242.1	108.6	108.6	78.98
1.85V	372.9	330.9	305.0	250.2	210.1	98.12	98.12	72.01



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

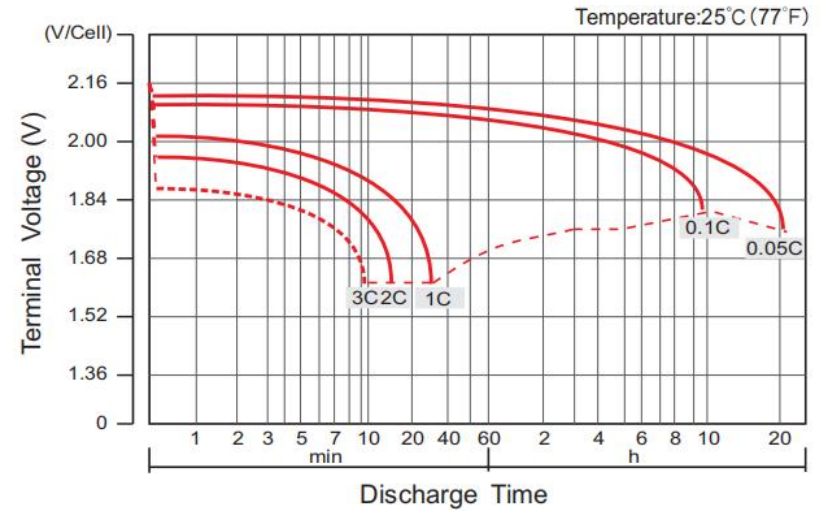
Model: GW12-650WL

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	1086	951.3	868.5	685.2	562.5	419.2	234.5	169.6
1.65V	1011	892.5	819.5	650.0	536.9	402.0	225.7	163.9
1.70V	977.7	865.7	796.7	634.9	525.3	393.9	222.0	161.6
1.75V	917.4	818.1	756.7	607.5	504.2	380.9	215.9	157.3
1.80V	853.9	767.9	714.6	580.5	485.2	367.5	209.4	153.0
1.85V	743.8	663.3	613.5	504.6	425.2	327.8	190.5	140.7

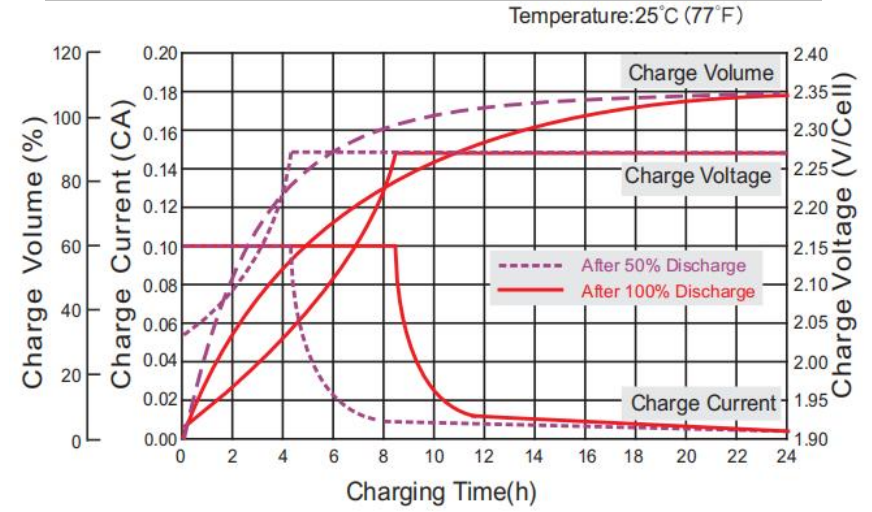


Constant Power Discharge
W/Cell (@ 77°F/25°C)

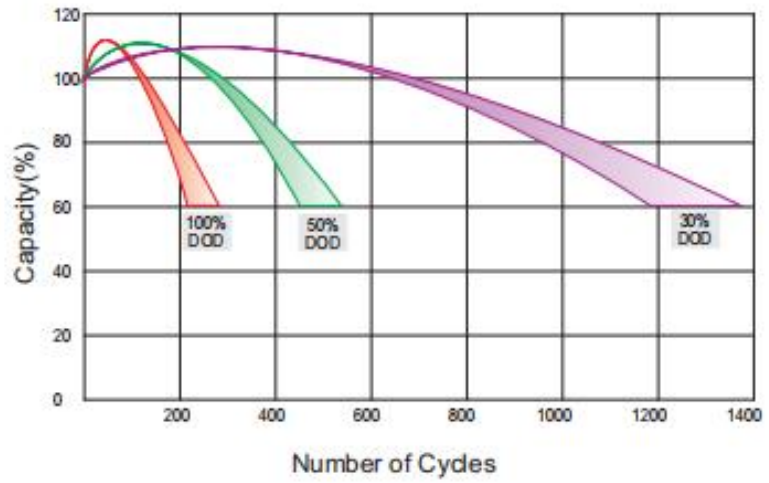
Discharge Characteristics Curve



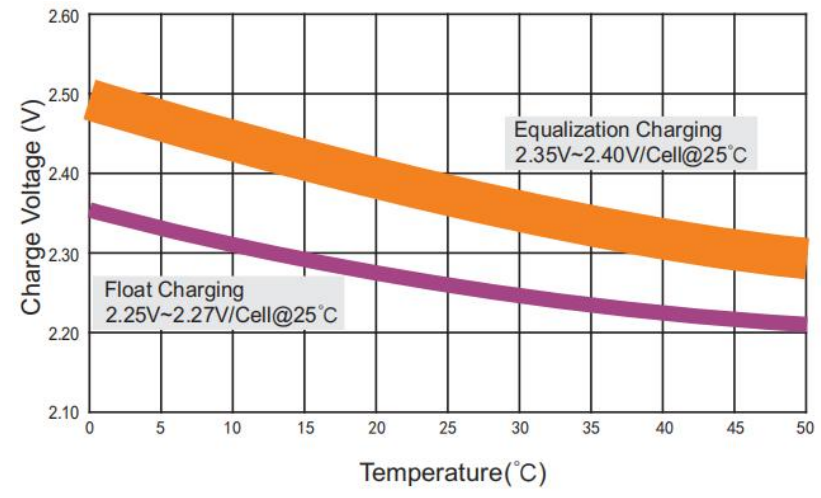
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

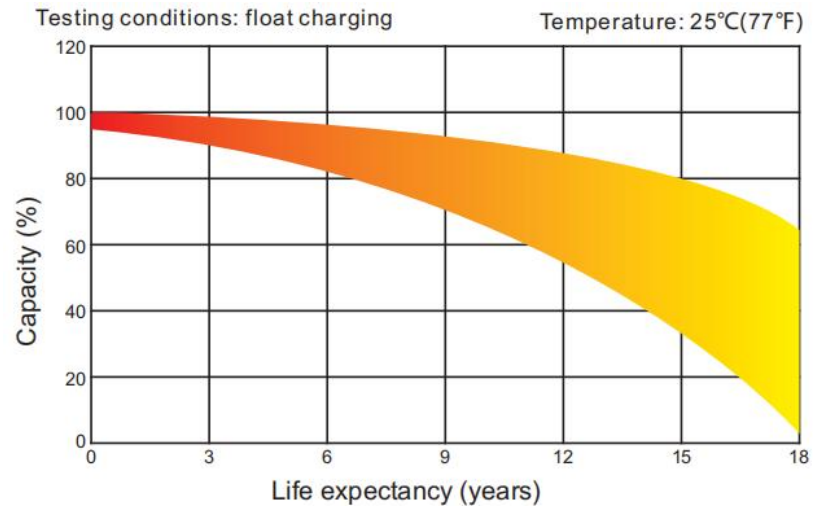


Relationship Between Charging Voltage and Temperature

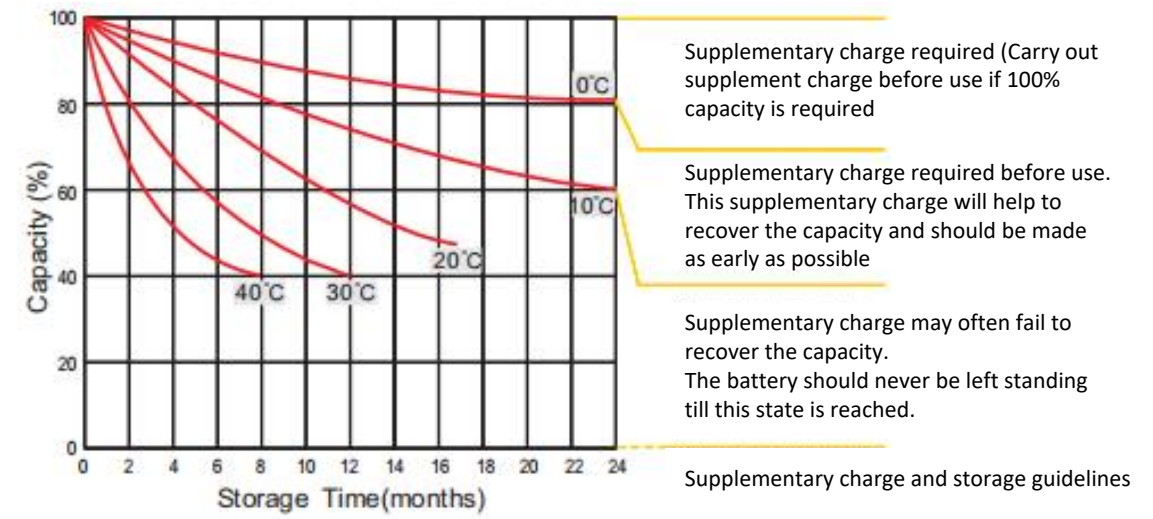


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

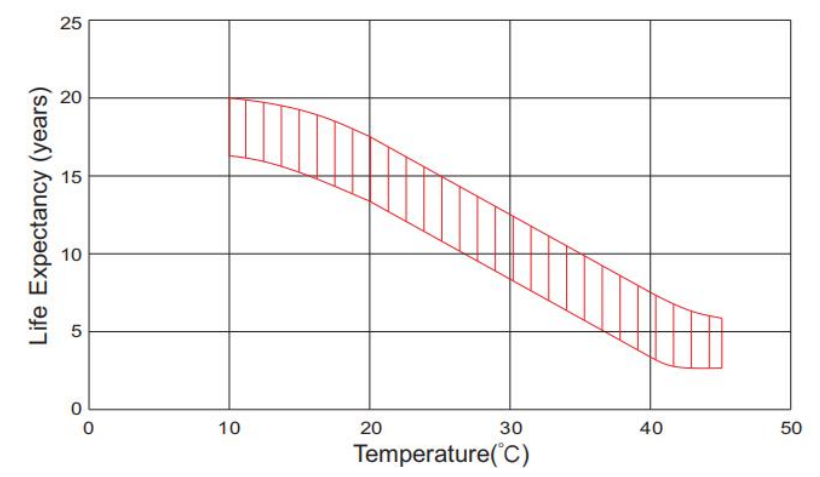
Life Characteristics of Standby Use



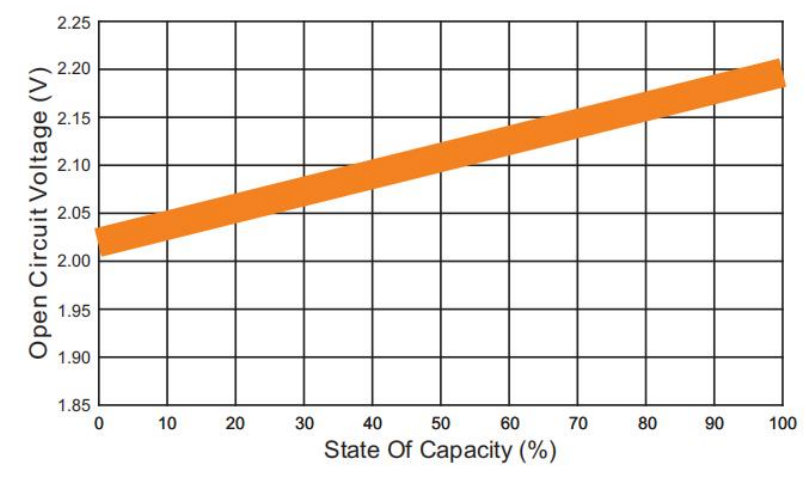
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



Note: The above data are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.



LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-800WL(12V 250Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

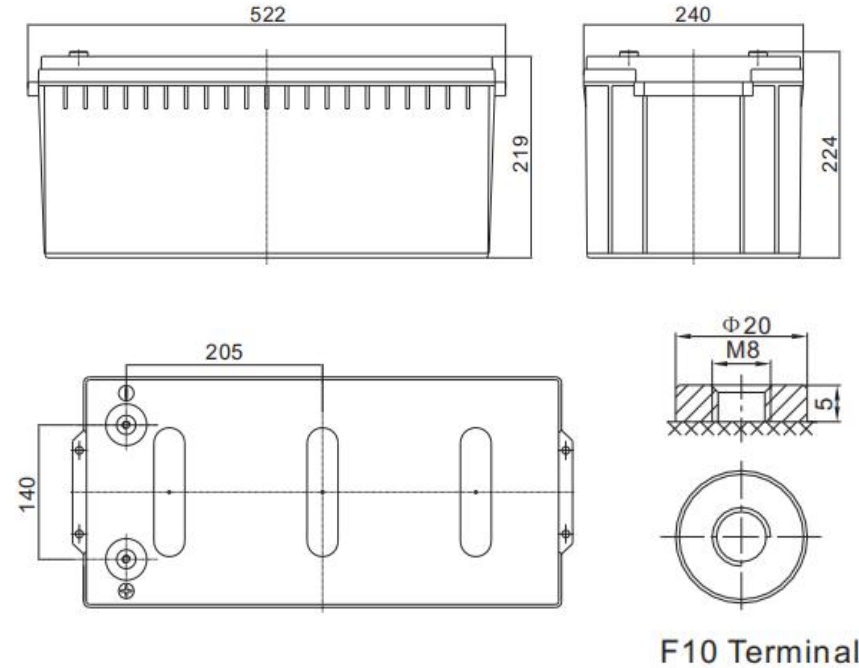
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-800WL(12V 250Ah)
Length	522±2mm (20.6 inches)
Width	240±2mm (9.45 inches)
Height	219±2mm (8.62 inches)
Total Height	224±2mm (8.82 inches)
Weight	Approx. 72.0Kg (Tolerance±5%)
Terminal	Default F10(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



GW12-800WL Dimension


	Structure: Compact design of shorter internal connectors among cells for lower I.R.
	Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.
Features	Separator: Improved AGM separator increases deep cycle life.
	Safety Valve:Flame arrester/filter is equipped with safety valve system.
	Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.

Parameters	GW12-800WL (12V 250Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	800W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤2.4 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	2500A (5 sec)
Max. Charging Current	75.0A
Short Circuit Current	4300A
Reference Capacity	C10: 245.0Ah C20: 250.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-800WL Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	695.4	608.8	550.8	442.4	360.2	265.5	153.6	110.3
1.65V	631.1	558.3	509.1	412.5	251.2	251.2	146.6	105.8
1.70V	604.2	536.6	490.8	400.0	245.2	245.2	143.7	103.7
1.75V	557.9	499.8	460.1	378.4	234.8	234.8	138.7	100.5
1.80V	511.1	462.9	429.4	358.0	224.9	224.9	133.7	97.20
1.85V	438.7	394.3	363.8	307.9	198.9	198.9	120.8	88.62



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

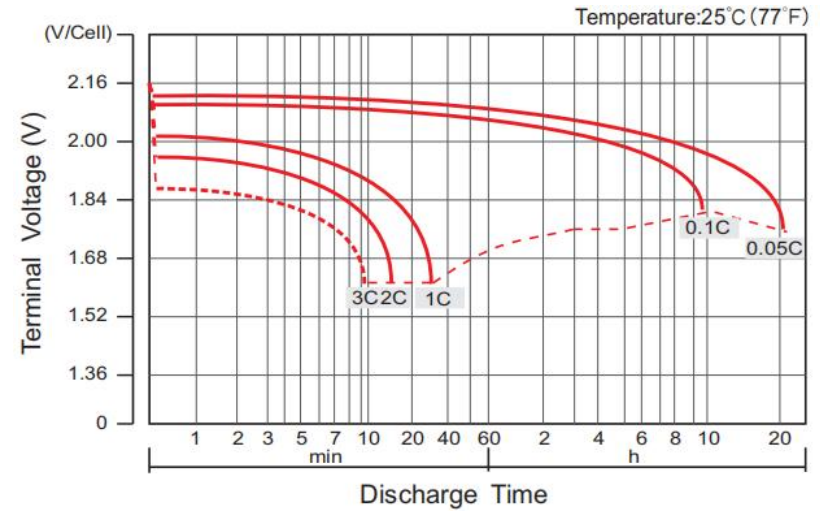
Model: GW12-800WL

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	1278	1171	1058	843.2	692.3	515.9	288.6	208.7
1.65V	1189	1098	998.3	800.0	660.7	494.7	277.7	201.7
1.70V	1150	1065	970.4	781.4	646.5	484.7	273.2	198.9
1.75V	1079	1007	921.7	747.6	620.5	468.7	265.7	193.6
1.80V	1005	945.0	870.4	714.3	597.2	452.3	257.7	188.3
1.85V	875.1	816.3	747.3	620.9	523.2	403.4	234.4	173.2

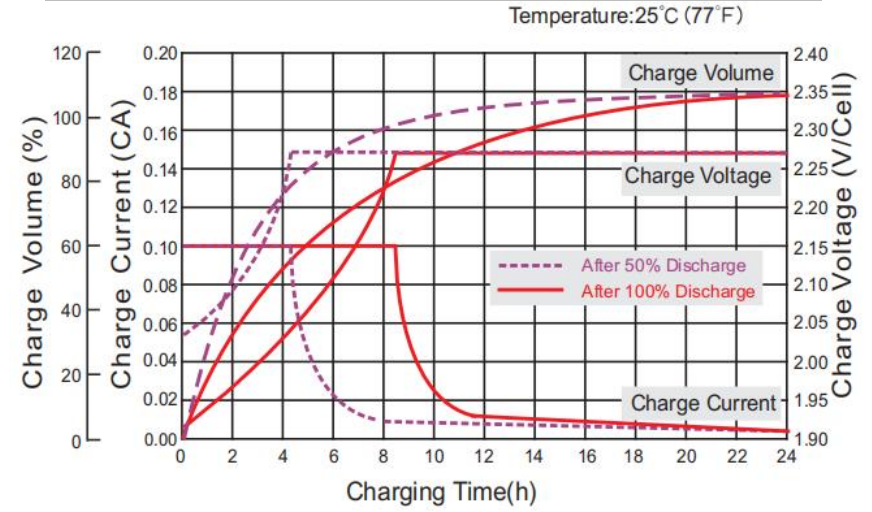


Constant Power Discharge
W/Cell (@ 77°F/25°C)

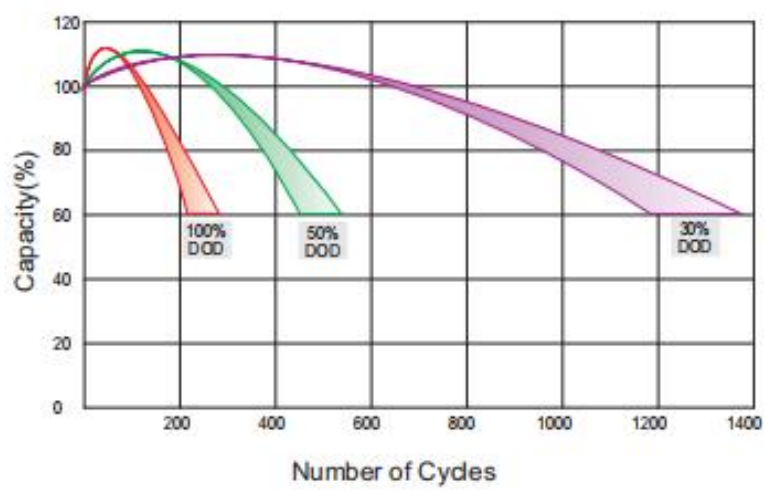
Discharge Characteristics Curve



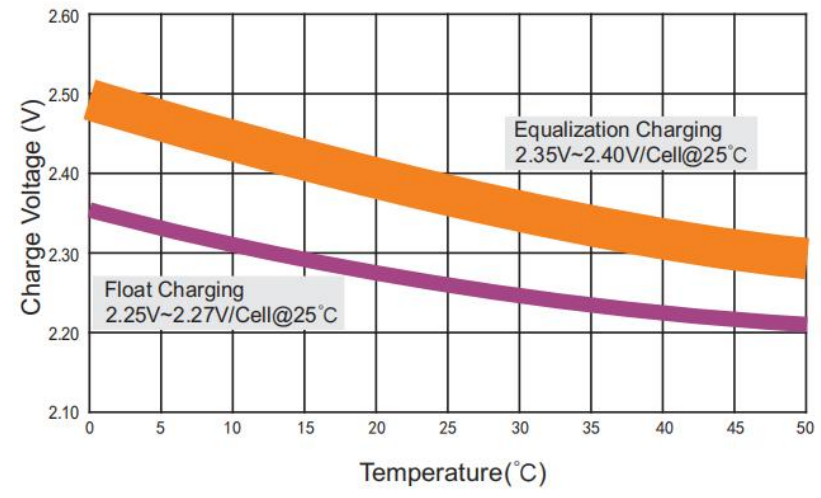
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

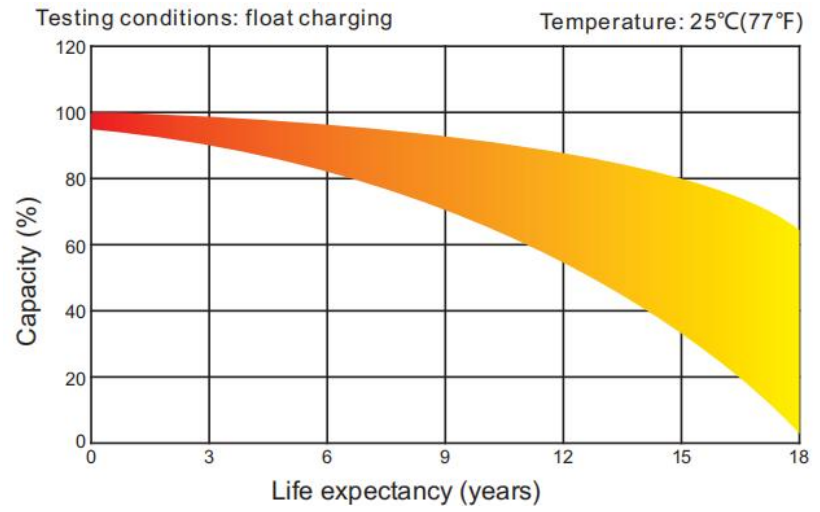


Relationship Between Charging Voltage and Temperature

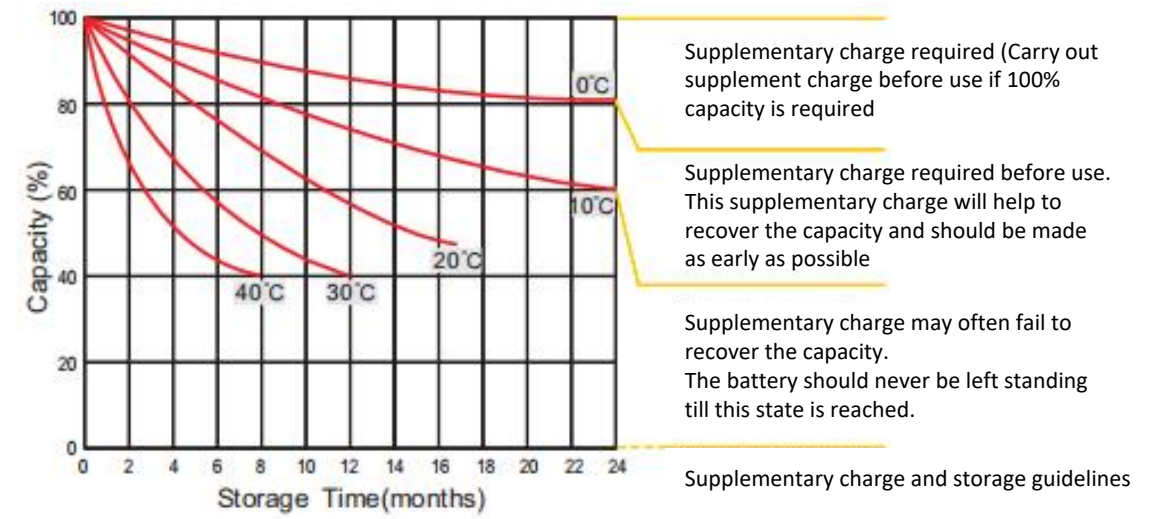


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

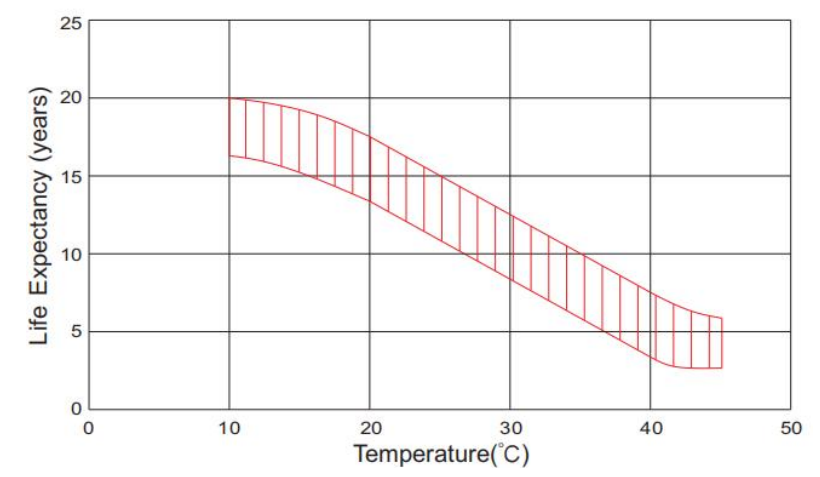
Life Characteristics of Standby Use



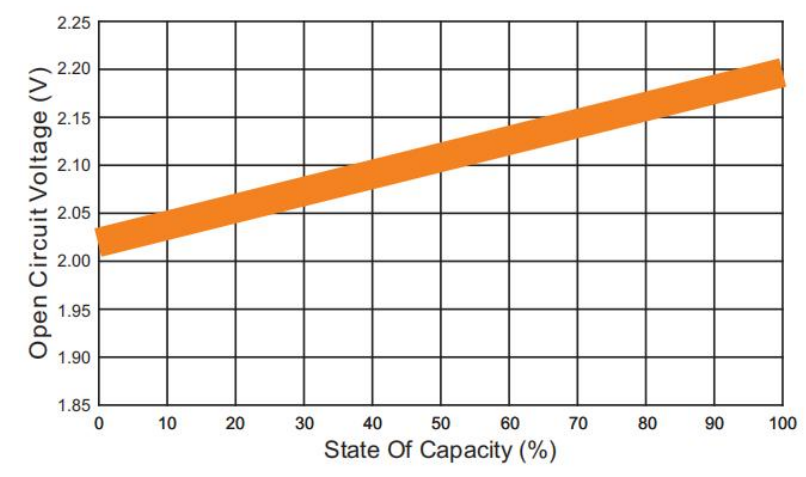
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



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LET'S DEVELOP TRUST AND BUSINESS

Connecting To Legacy

Model: GW12-850WL(12V 260Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

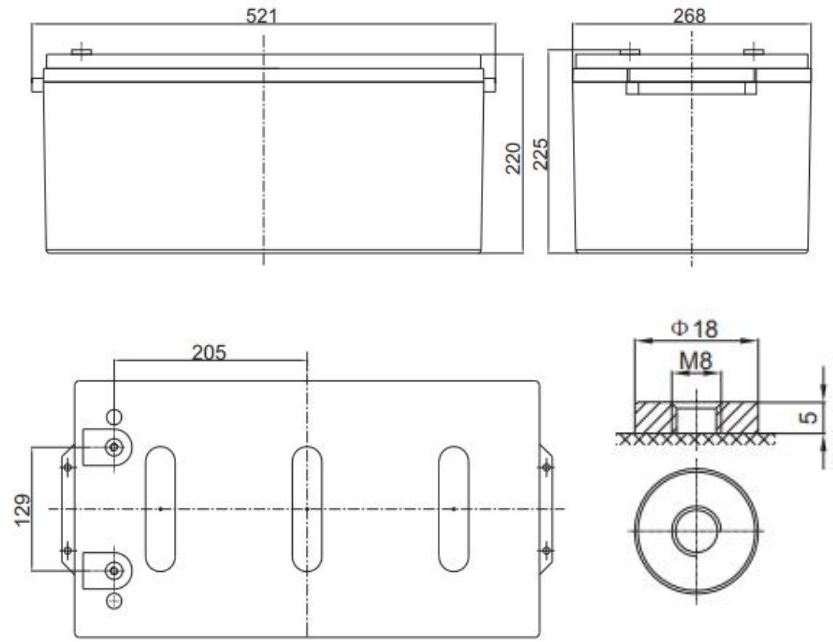
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GW12-850WL(12V 260Ah)
Length	521±2mm (20.5 inches)
Width	268±2mm (10.6 inches)
Height	220±2mm (8.66 inches)
Total Height	225±2mm (8.86 inches)
Weight	Approx. 80.5Kg (Tolerance±5%)
Terminal	Default F14(M8), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.



F14 Terminal

GW12-850WL Dimension

Structure: Compact design of shorter internal connectors among cells for lower I.R.

Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.

Separator: Improved AGM separator increases deep cycle life.

Safety Valve:Flame arrester/filter is equipped with safety valve system.

Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.


Features

Parameters	GW12-850WL (12V 260Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	850W@15min-rate to 1.67V per cell @25°C
Internal Resistance	≤2.2 mΩ(Full Charge Condition @25°C)
Max. Discharge Current	2600A (5 sec)
Max. Charging Current	78.0A
Short Circuit Current	4550A
Reference Capacity	C10: 249.2Ah C20: 260.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Normal Operating Temperature Range	25°C±5°C
Operating Temperature Range	Discharge and Storage : -20°C~60°C Charge: 0°C~50°C
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25°C
Note	Legacy GW batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.



GW12-850WL Imagine


F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	806.9	682.0	609.9	470.0	382.7	282.1	163.3	117.2
1.65V	732.2	625.4	563.7	438.3	359.7	266.9	155.7	112.4
1.70V	701.1	601.2	543.4	425.0	349.6	260.5	152.6	110.2
1.75V	647.3	560.0	509.4	402.0	332.2	249.5	147.3	106.7
1.80V	593.0	518.6	475.5	380.4	316.6	238.9	142.0	103.3
1.85V	509.0	441.8	402.8	327.1	274.7	211.3	128.3	94.2



Constant Current Discharge
Ah/Cell (@ 77°F/25°C)

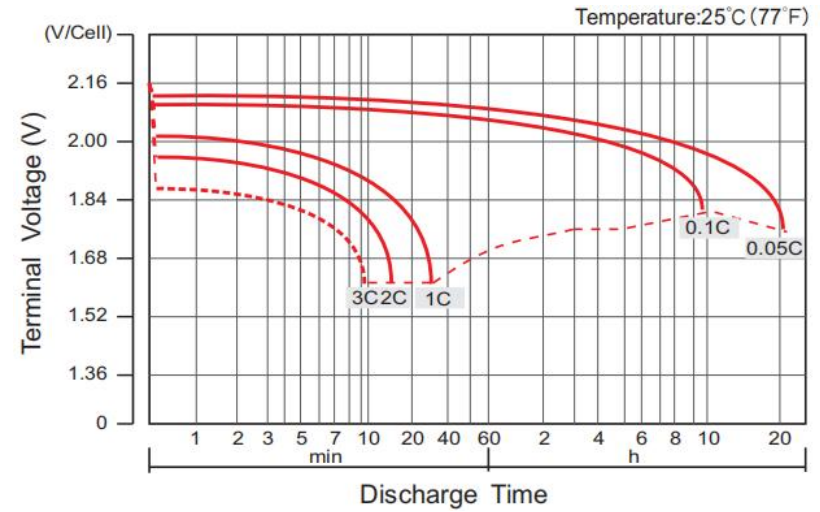
Model: GW12-850WL

F.V/TIME	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60V	1482.6	1270.0	1147.1	895.9	735.6	548.1	306.6	221.7
1.65V	1379.9	1191.5	1082.5	850.0	702.0	525.6	295.1	214.4
1.70V	1334.5	1155.8	1052.3	830.2	686.9	515.0	290.2	211.3
1.75V	1252.3	1092.2	999.5	794.4	659.3	498.0	282.3	205.7
1.80V	1165.6	1025.2	943.8	759.0	634.5	480.6	273.9	200.0
1.85V	1015.3	885.5	810.4	659.7	555.9	428.7	249.1	184.0

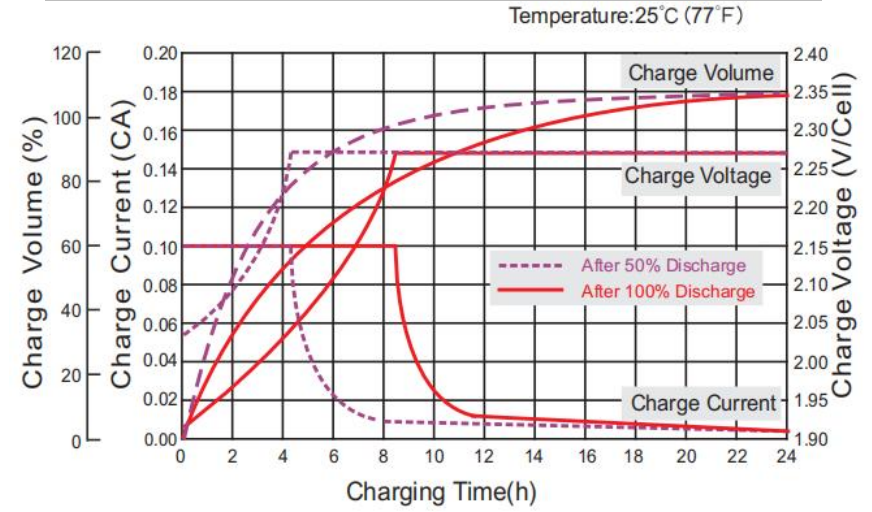


Constant Power Discharge
W/Cell (@ 77°F/25°C)

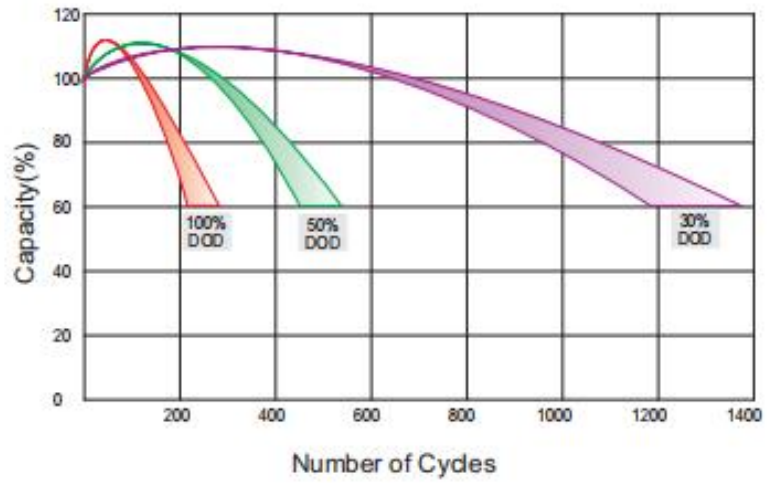
Discharge Characteristics Curve



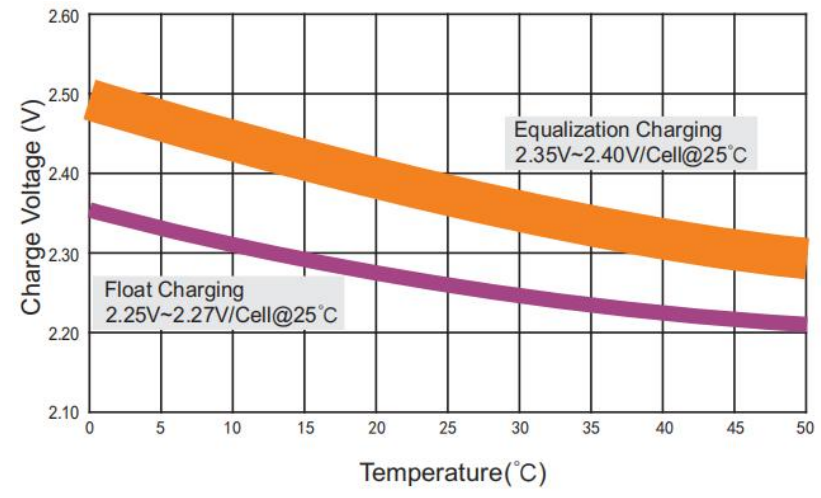
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

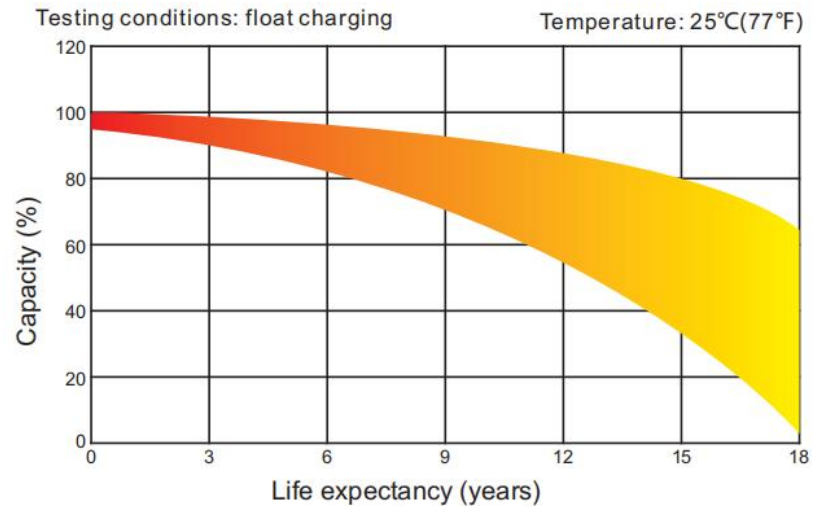


Relationship Between Charging Voltage and Temperature

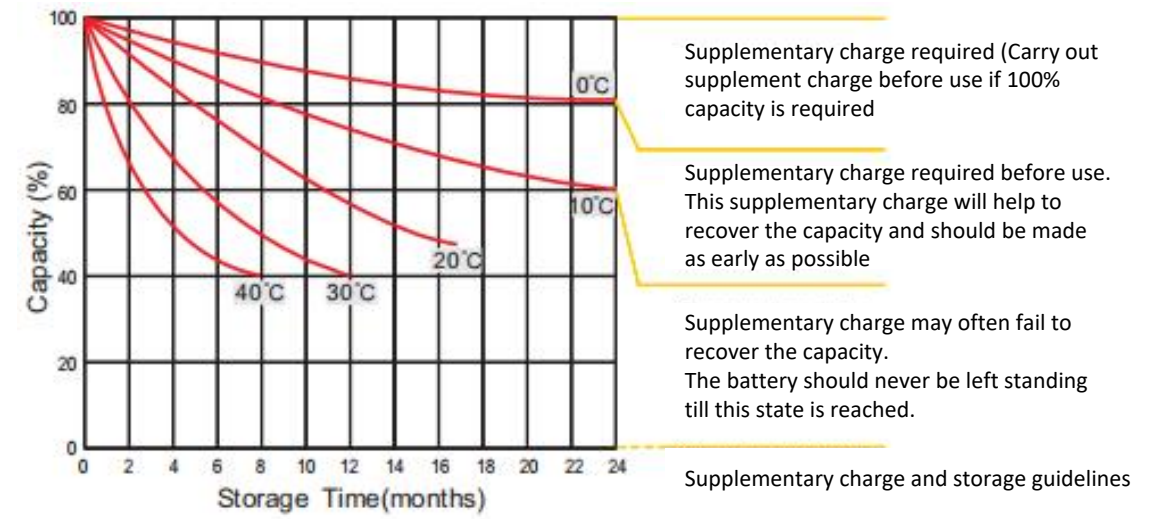


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

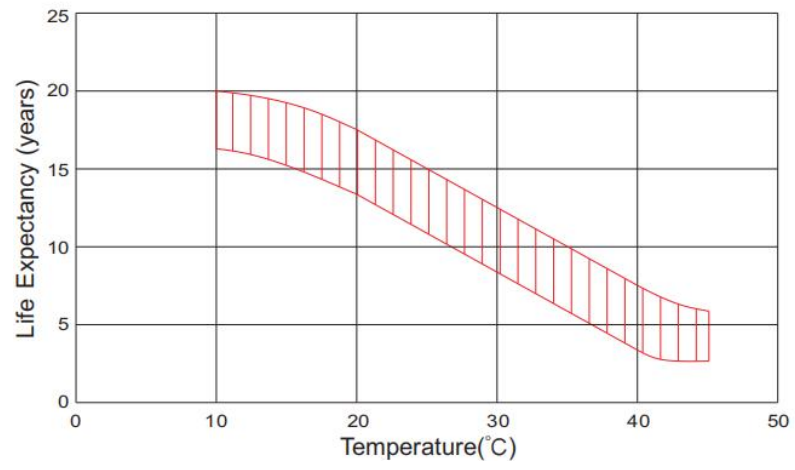
Life Characteristics of Standby Use



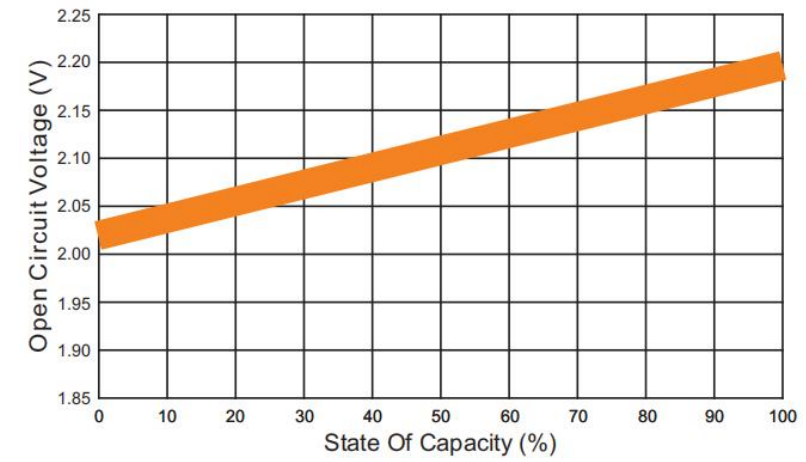
Storage Characteristics



Effect of Temperature on Longterm life



Relationship of OCV and State of Charge(20°C)



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