

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

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

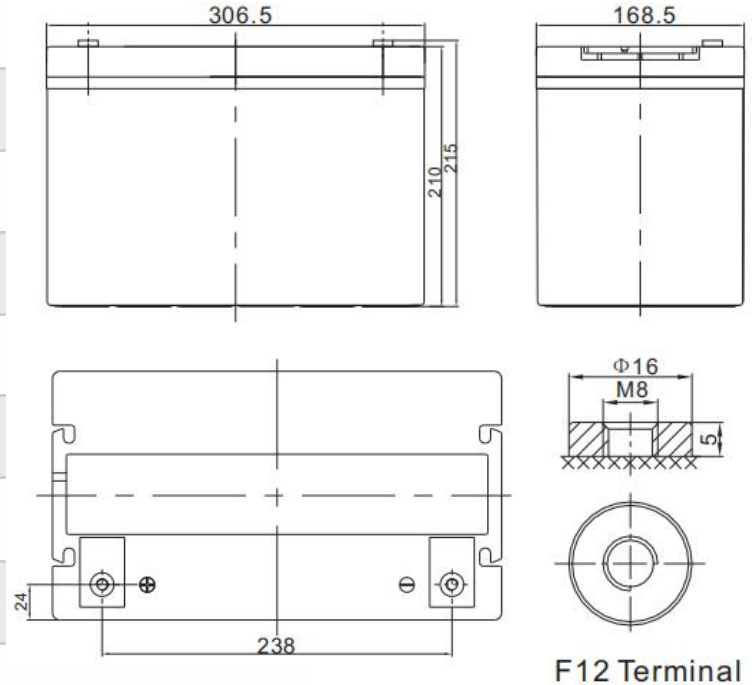
📍 Laval-Quebec-Canada

📍 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.



F12 Terminal

GW12-380SW 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	GW12-380SW(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)

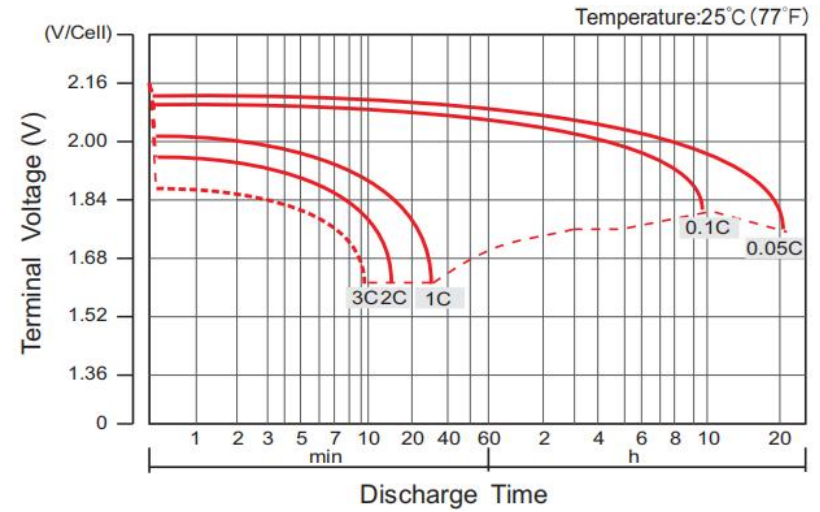
Model: GW12-380SW

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

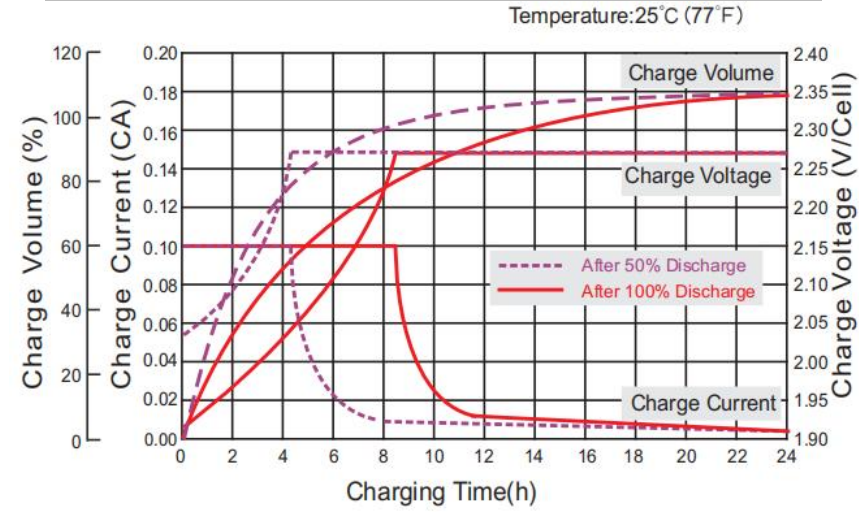


Constant Power Discharge
W/Cell (@ 77°F/25°C)

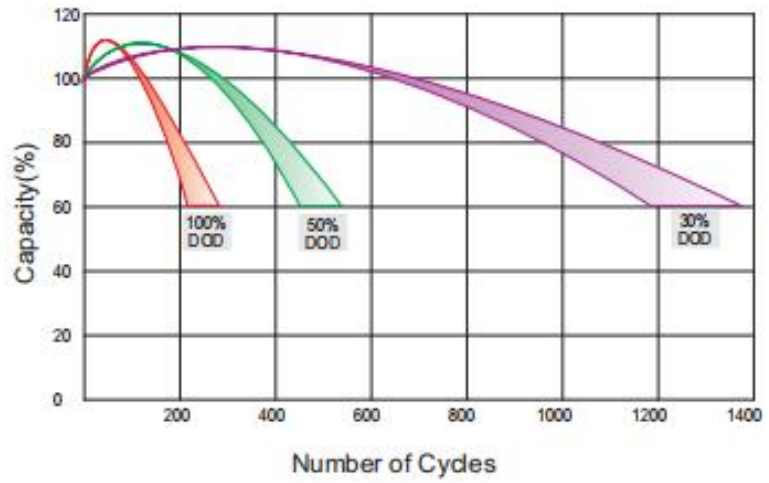
Discharge Characteristics Curve



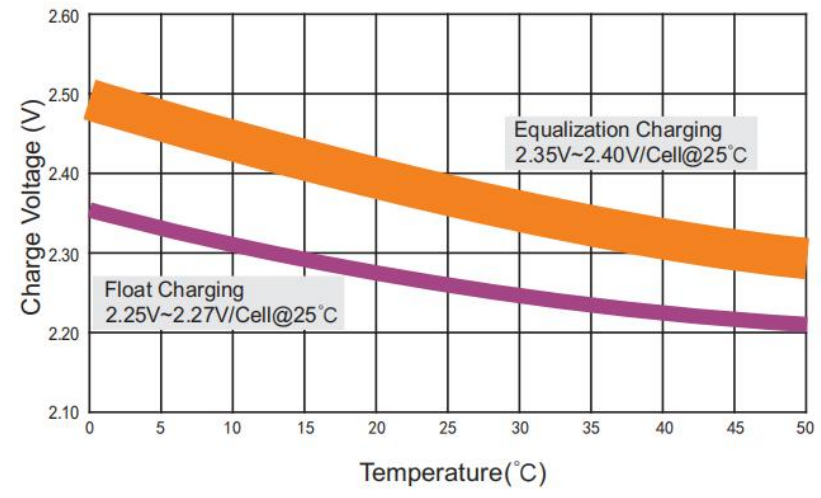
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

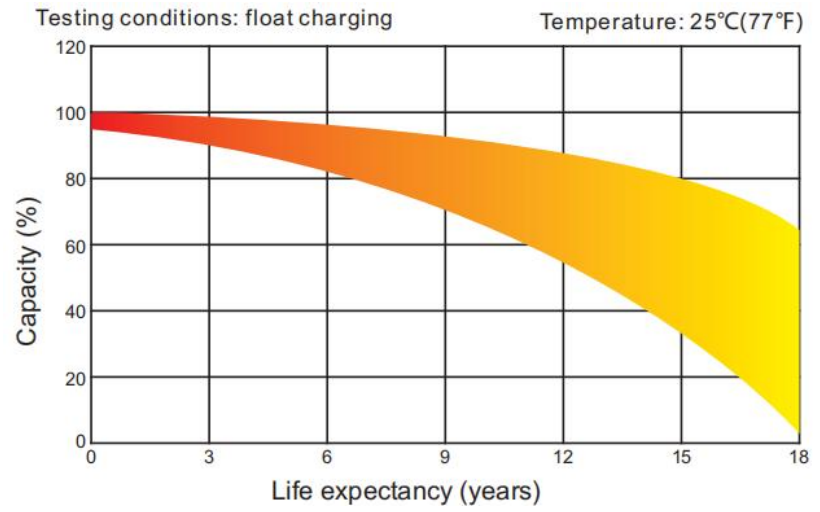


Relationship Between Charging Voltage and Temperature

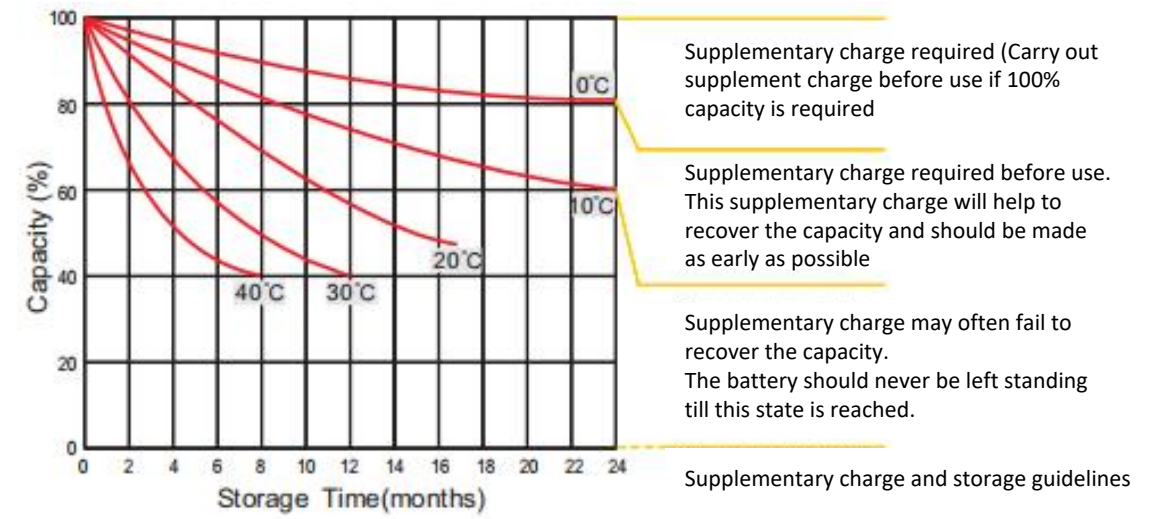


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

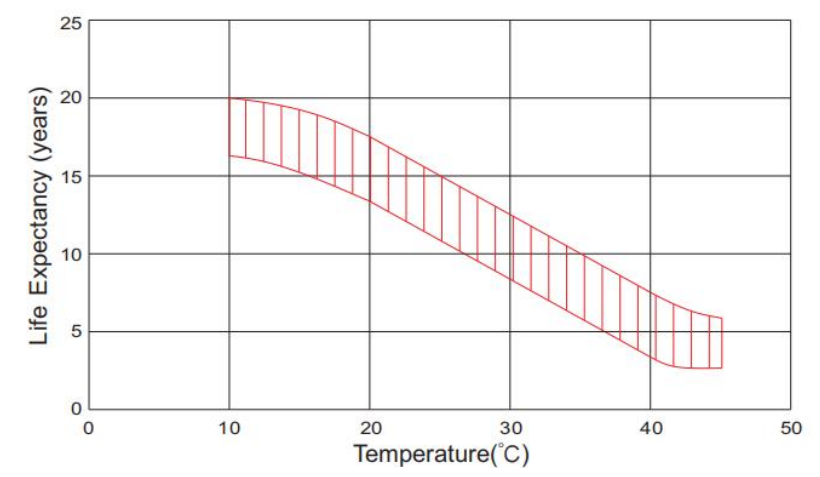
Life Characteristics of Standby Use



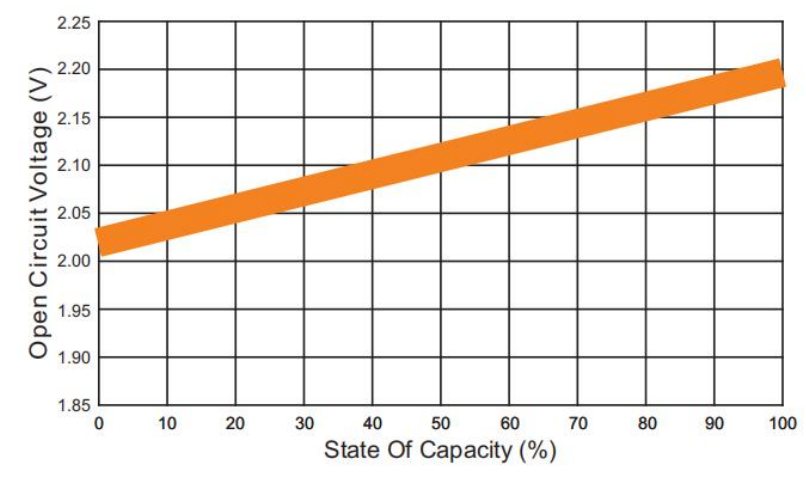
Storage Characteristics



Effect of Temperature on Longterm life



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



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