

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

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

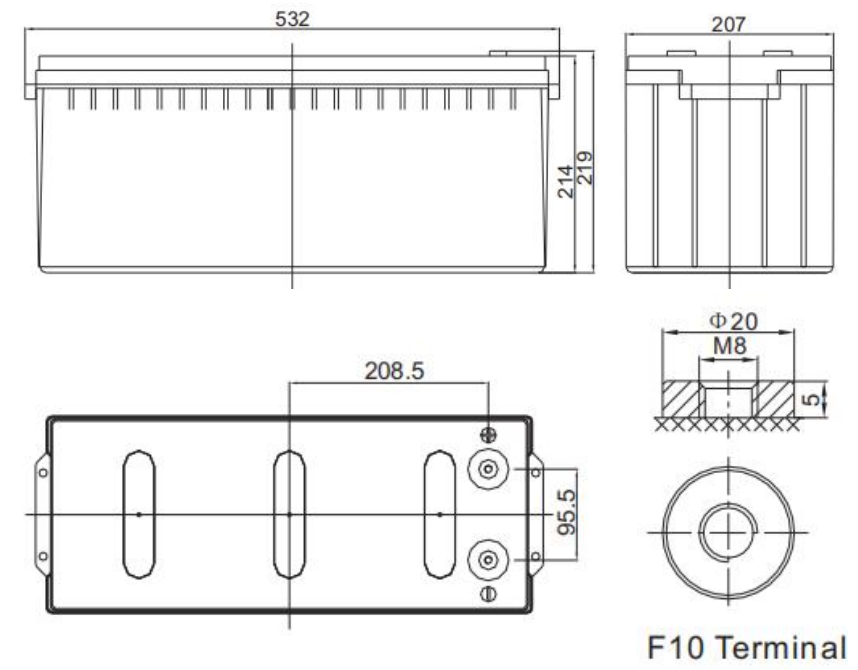
📍 Laval-Quebec-Canada

📍 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.

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	GW12-600WL (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)

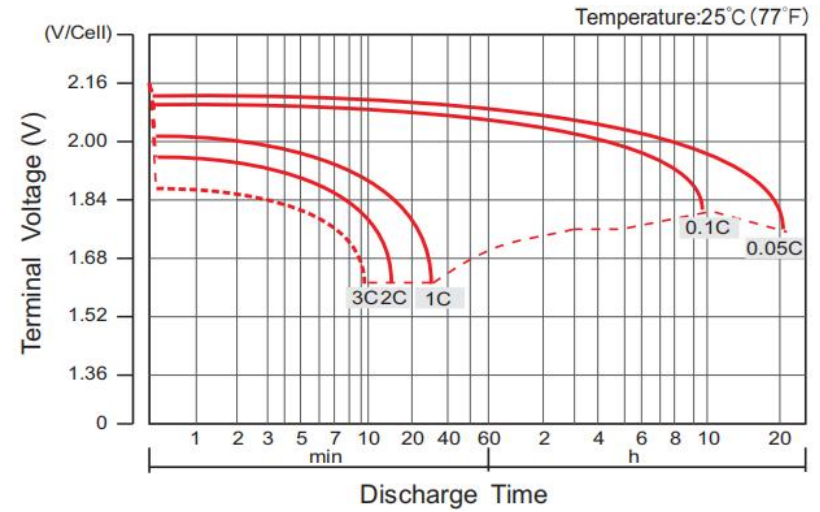
Model: GW12-600WL

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

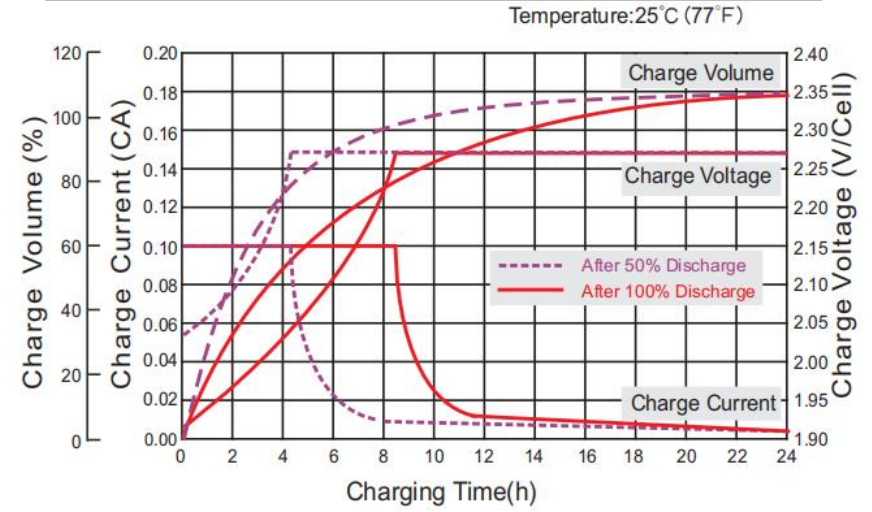


Constant Power Discharge
W/Cell (@ 77°F/25°C)

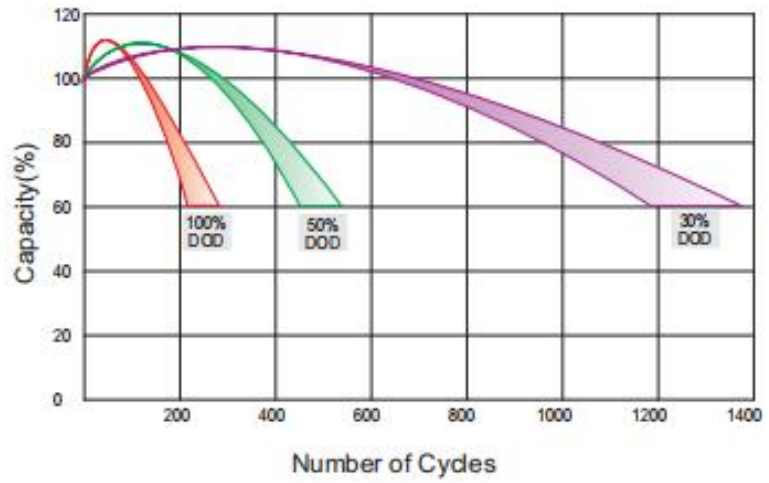
Discharge Characteristics Curve



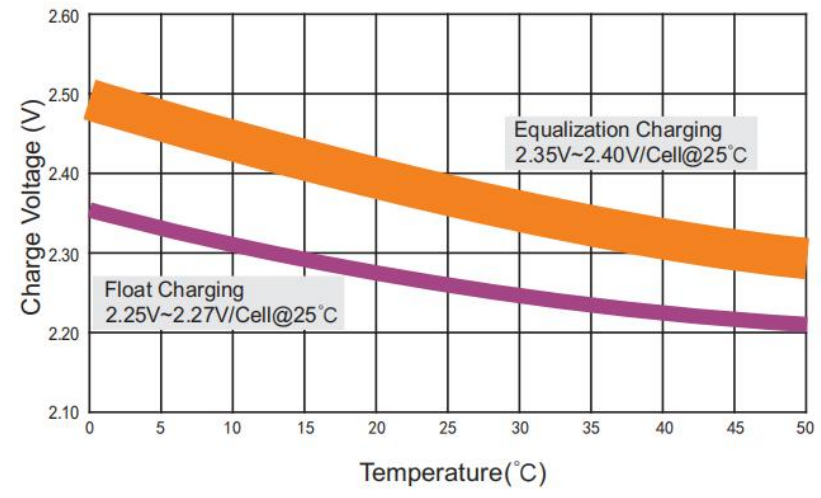
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

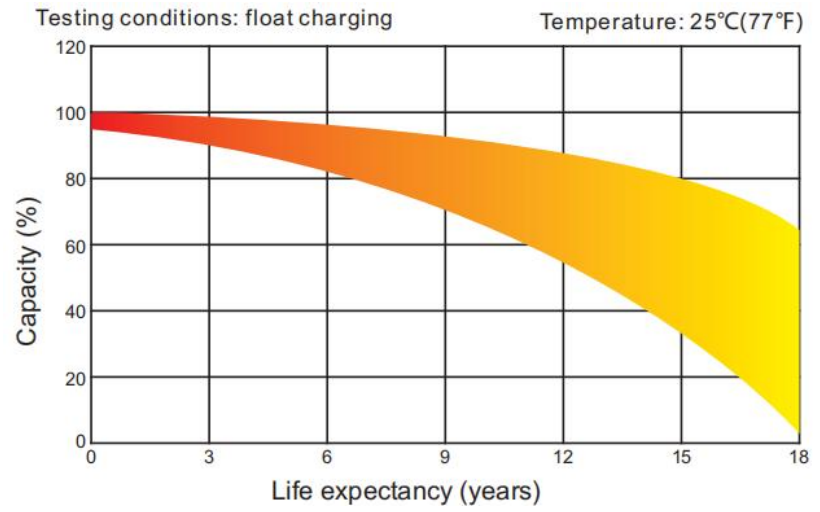


Relationship Between Charging Voltage and Temperature

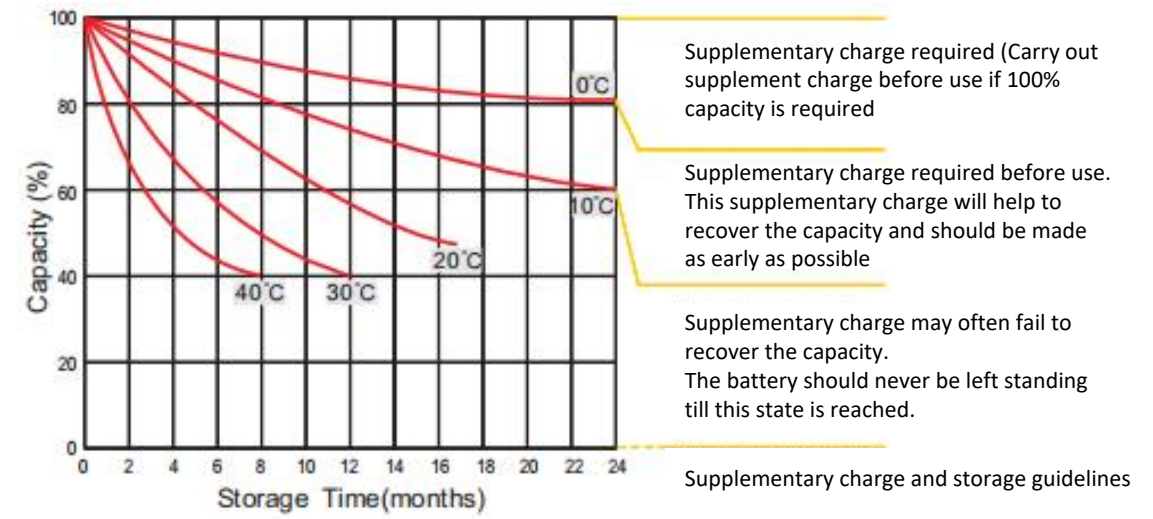


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

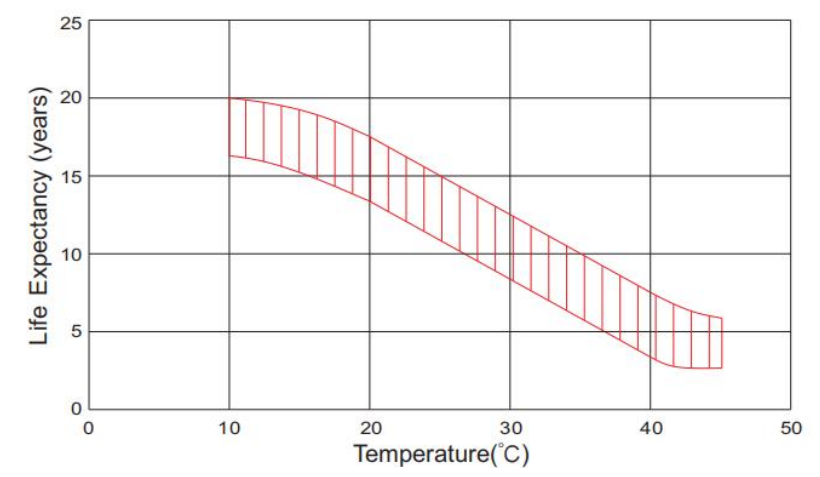
Life Characteristics of Standby Use



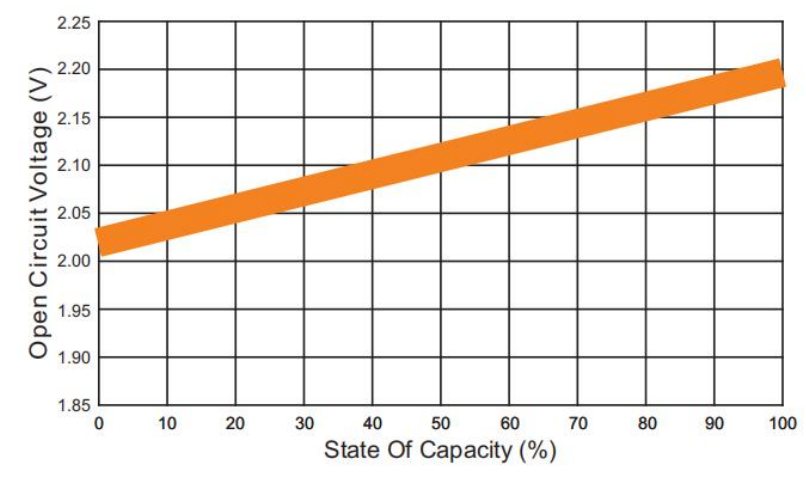
Storage Characteristics



Effect of Temperature on Longterm life



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



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