

Model: GL12-200(12V 200Ah)

# GL Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

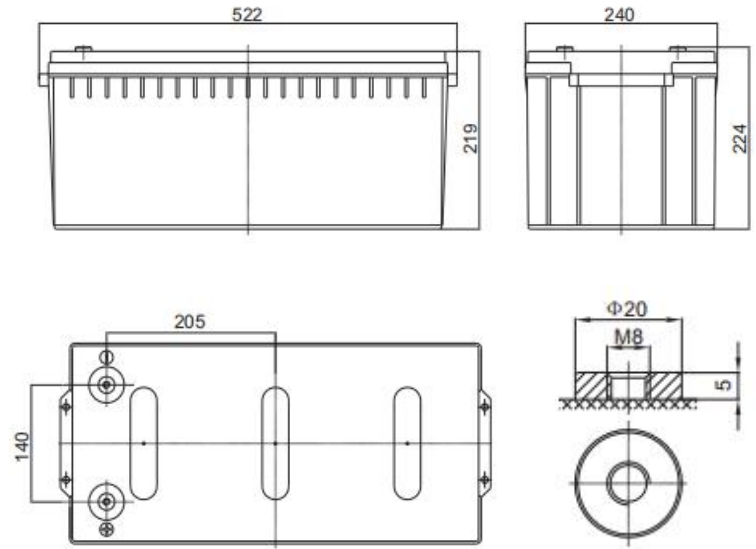
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 [www.connectinglegacy.com](http://www.connectinglegacy.com)

Introduction	GL12-200(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. 58.0 Kg (Tolerance±5%)
Terminal	Default F10(M8), F16(M8) and L6 (Optional), Value: 10~12N*m
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	12 years
Application	UPS/EPS, Telecom, Power grid, Medical equipment, Emergency light and Security system etc.



F10 Terminal

GL12-200 Dimension

Features	<p>Structure: Compact design of shorter internal connectors among cells for lower I.R.</p> <p>Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high current discharge.</p> <p>Separator: Improved AGM separator increases deep cycle life.</p> <p>Safety Valve: Flame arrester/filter is equipped with safety valve system.</p> <p>Design and manufacture with DIN standards by Legacy team, for heavy load discharge applications.</p>
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Parameters	GL12-200 (12V 200Ah)			
Cell Per Unit	6			
Voltage Per Unit	12V			
Nominal Capacity	200Ah @10hour-rate to 1.80V 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	3430A			
Reference Capacity	C3:150.0Ah	C5:170.0Ah	C10: 200.0Ah	C20: 212.0Ah
Floating Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell			
Cycle Use Voltage	14.6 V~14.8 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 GL batteries can be stored for up to 6 months at 25°C and recharging is recommended. Please charged batteries before using.			



GL12-200 Imagine


F.V/TIME	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	439.3	352.3	216.8	122.2	72.8	56.4	44.3	37.7	25.4	21.1	11.0
1.65V	415.1	336.8	208.2	118.0	70.5	54.7	43.1	36.8	25.1	20.8	10.9
1.70V	382.2	315.4	199.0	114.2	68.2	53.2	42.0	35.8	24.7	20.5	10.7
1.75V	349.8	293.5	190.2	110.0	65.8	51.6	40.9	34.9	24.3	20.3	10.6
1.80V	316.7	271.0	181.8	105.8	63.4	50.0	39.7	34.0	23.9	20.0	10.5
1.85V	258.8	224.9	156.5	94.9	58.1	46.2	36.9	31.7	22.5	18.8	10.0

F.V/TIME	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	746.8	615.8	393.8	299.6	138.0	107.7	85.1	72.7	49.5	41.5	21.7
1.65V	719.3	597.5	382.1	223.0	134.2	104.9	83.1	71.1	49.1	41.0	21.4
1.70V	674.3	568.0	368.8	217.1	130.5	102.5	81.2	69.5	48.4	40.5	21.2
1.75V	628.4	536.2	356.2	210.5	126.5	99.8	79.4	68.0	47.8	40.0	21.0
1.80V	578.7	502.1	343.9	203.6	122.6	97.1	77.4	66.5	47.1	39.5	20.8
1.85V	481.4	422.6	299.1	183.7	113.0	90.2	72.2	62.2	44.4	37.3	19.7



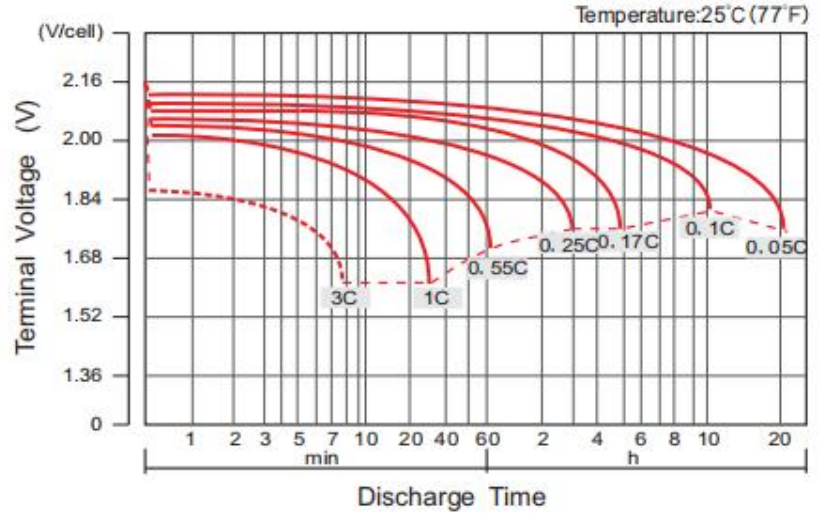
**Constant Current Discharge**  
Ah/Cell (@ 77°F/25°C)

Model: GL12-200

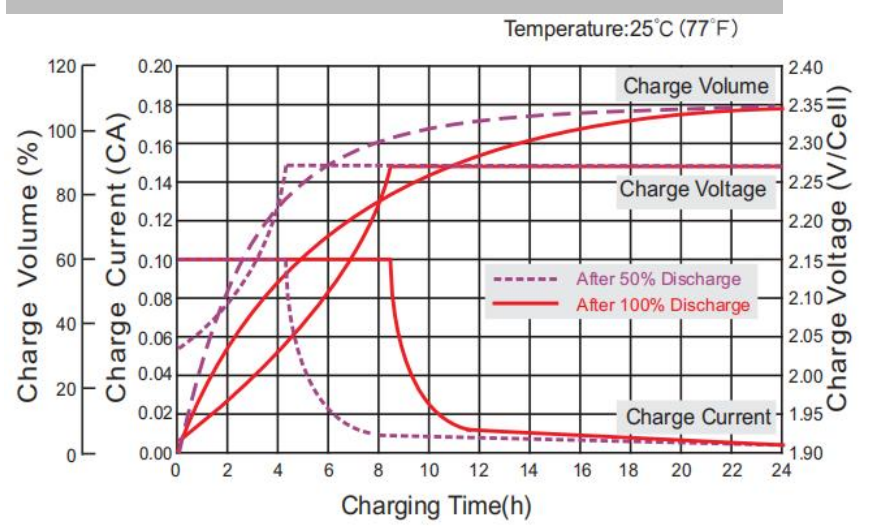


**Constant Power Discharge**  
W/Cell (@ 77°F/25°C)

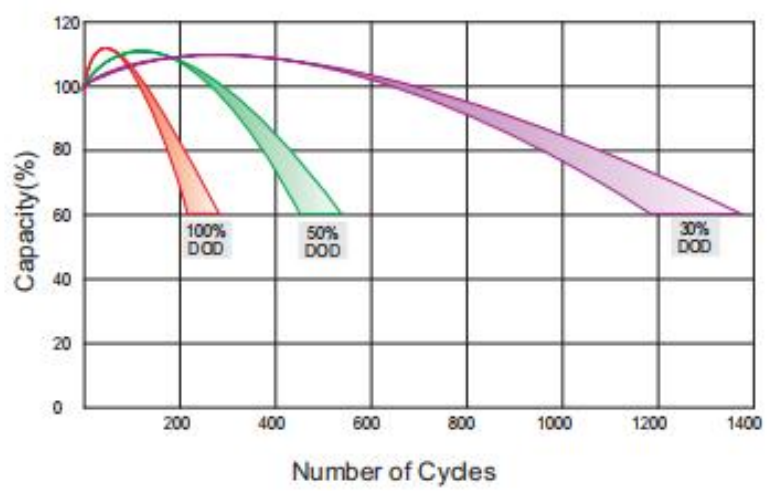
### Discharge Characteristics Curve



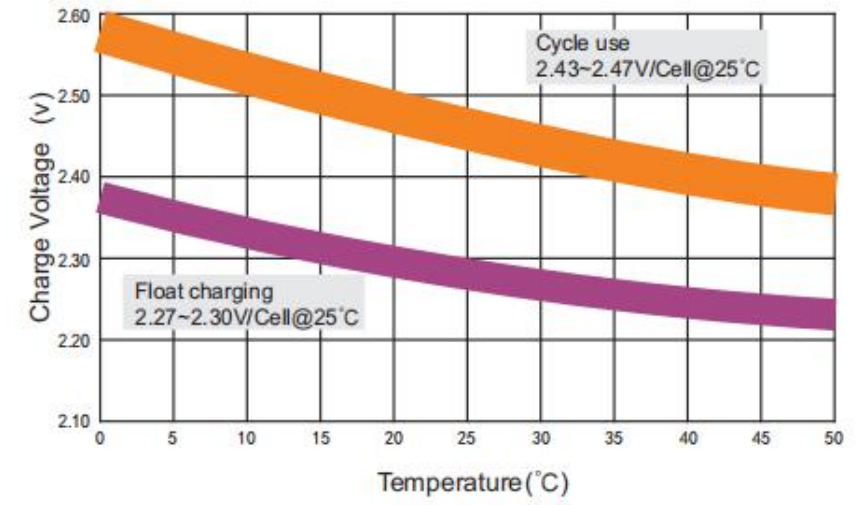
### Charge Characteristics Curve For Standby Use(IU)



### Cycle Life in Relation to Depth of Discharge

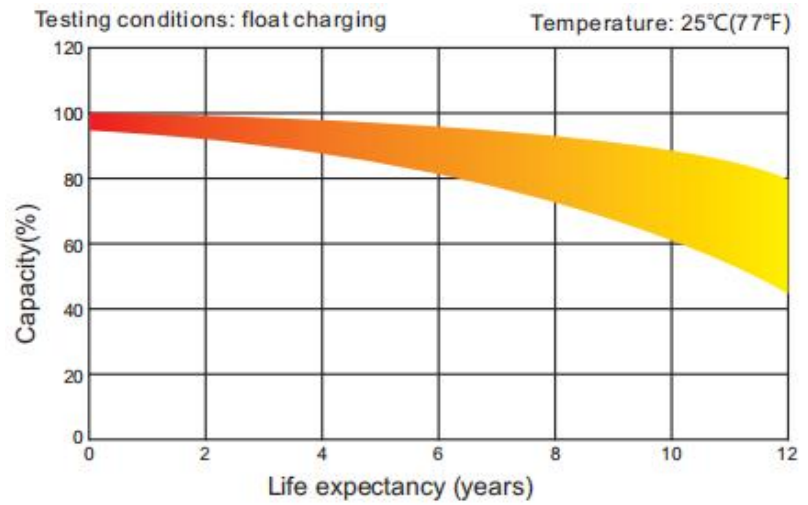


### Relationship Between Charging Voltage and Temperature

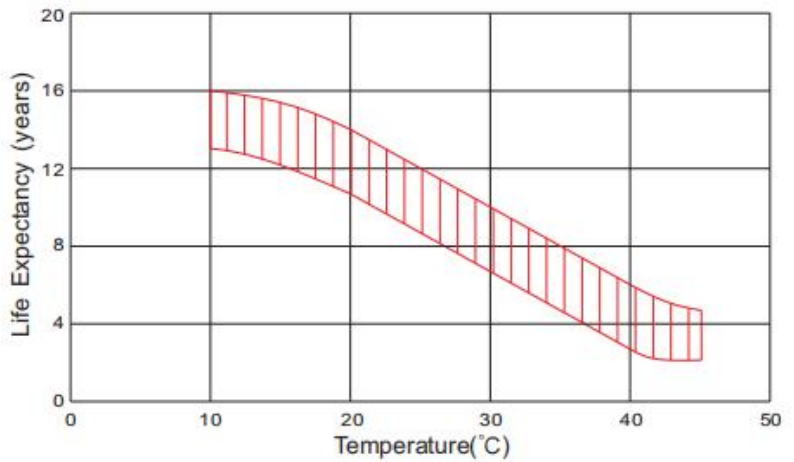


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

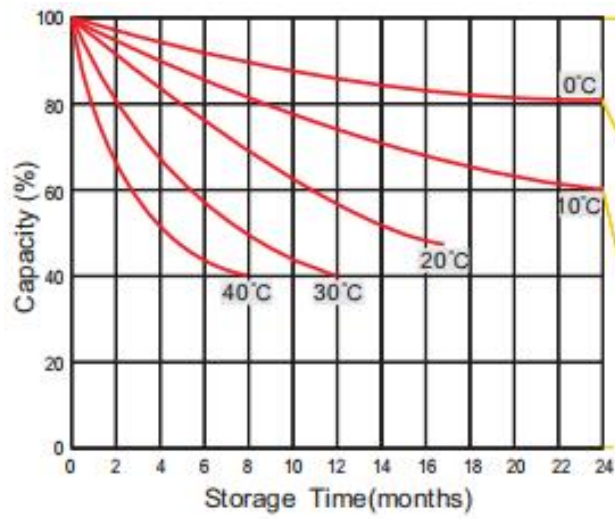
### Life Characteristics of Standby Use



### Effect of Temperature on Longterm life



### Storage Characteristics



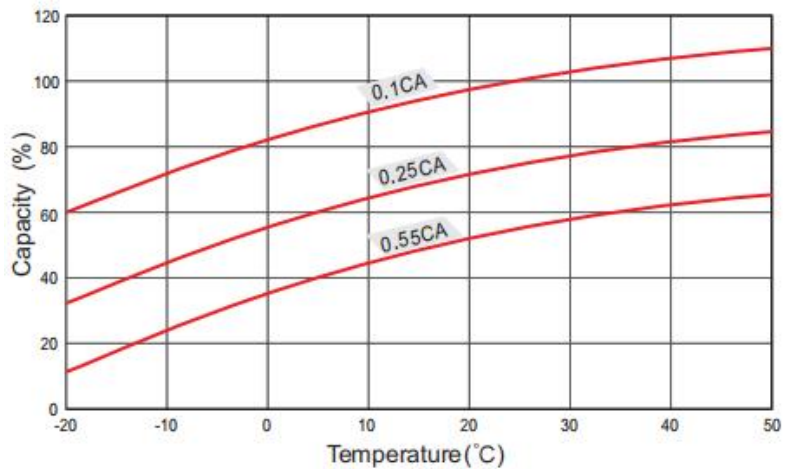
Supplementary charge required (Carry out supplement charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached.

Supplementary charge and storage guidelines

### Temperautre Effects On Capacity



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.



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