



Model: GL12-65(12V 65Ah)

GL Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

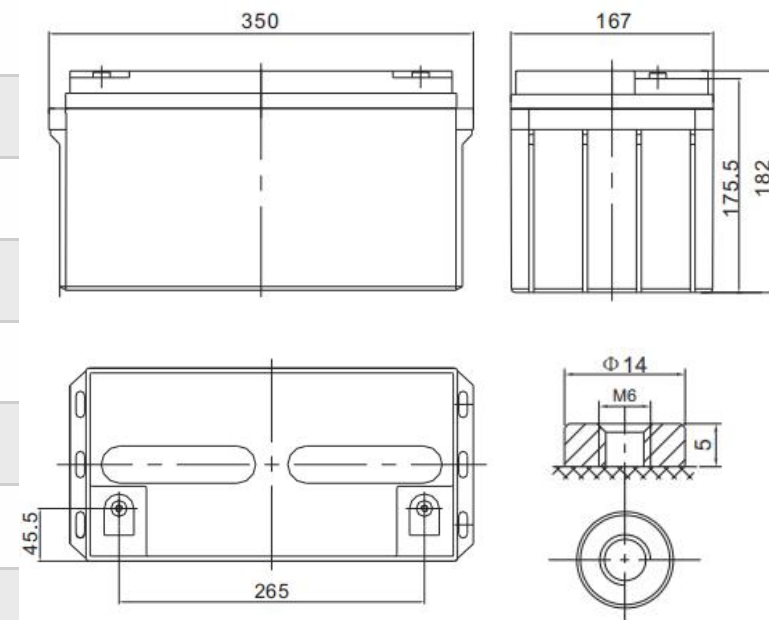
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GL12-65(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. 17.5 Kg (Tolerance±5%)
Terminal	Default F11(M6), <i>Value: 8~10N*m</i> and F5(M8)(Optional), <i>Value: 10~12N*m</i>
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	12 years
Application	UPS/EPS,Telecom,Power grid,Medical equiment,Emergency light and Security system etc.
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.



F11 TERMINAL

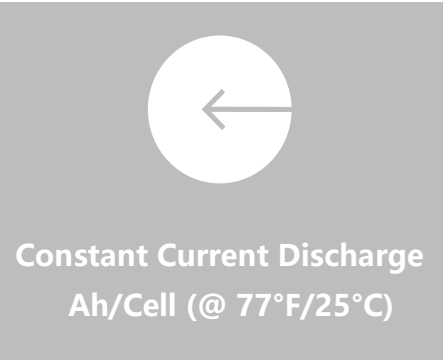
GL12-65 Dimension

Parameters	GL12-65 (12V 65Ah)			
Cell Per Unit	6			
Voltage Per Unit	12V			
Nominal Capacity	65Ah @10hour-rate to 1.80V per cell @25°C			
Internal Resistance	≤8.5 mΩ(Full Charge Condition @25°C)			
Max. Discharge Current	650A (5 sec)			
Max. Charging Current	19.5A			
Short Circuit Current	1500A			
Reference Capacity	C3:48.9Ah	C5:55.0Ah	C10: 65.0Ah	C20: 68.8Ah
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.			



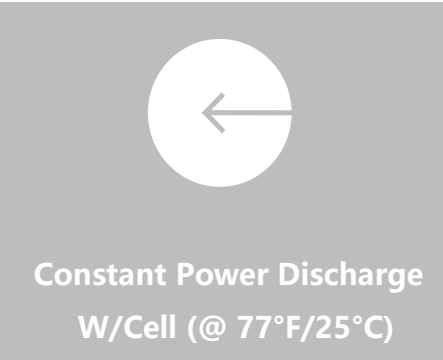
GL12-65 Imagine

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	202.0	155.5	119.3	70.5	39.7	23.7	18.3	14.4	12.3	8.24	6.86	3.59
1.65V	194.7	146.9	114.1	67.7	38.4	22.9	17.8	14.0	11.9	8.15	6.77	3.53
1.70V	185.2	135.2	106.8	64.7	37.1	22.2	17.3	13.6	11.6	8.02	6.67	3.49
1.75V	173.0	123.8	99.4	61.8	35.7	21.4	16.8	13.3	11.3	7.91	6.58	3.44
1.80V	157.6	112.1	91.8	59.1	34.4	20.6	16.3	12.9	11.0	7.78	6.50	3.41
1.85V	138.7	91.6	76.2	50.9	30.8	18.9	15.0	12.0	10.3	7.30	6.12	3.24

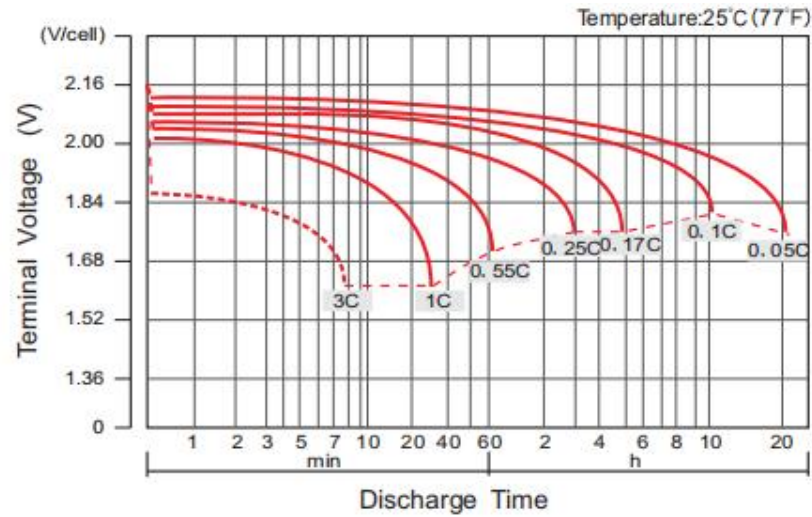


Model: GL12-65

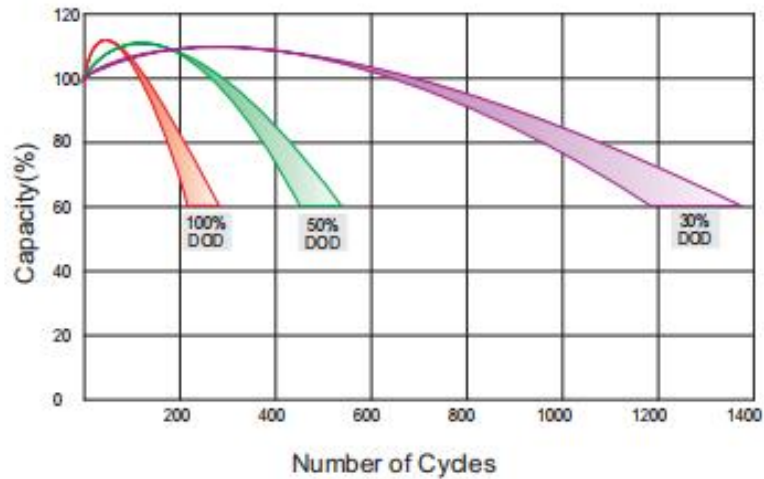
F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	347.7	264.3	208.6	128.0	74.6	44.8	35.0	27.7	23.6	16.1	13.5	7.06
1.65V	344.0	254.5	202.4	124.2	72.5	43.6	34.1	27.0	23.1	15.9	13.3	6.96
1.70V	330.9	238.6	192.4	119.9	70.6	42.4	33.3	26.4	22.6	15.7	13.2	6.89
1.75V	314.7	222.4	181.6	115.8	68.4	41.1	32.4	25.8	22.1	15.5	13.0	6.81
1.80V	291.7	204.8	170.1	111.8	66.2	39.9	31.6	25.2	21.6	15.3	12.8	6.75
1.85V	261.2	170.4	143.1	97.2	59.7	36.7	29.3	23.5	20.2	14.4	12.1	6.42



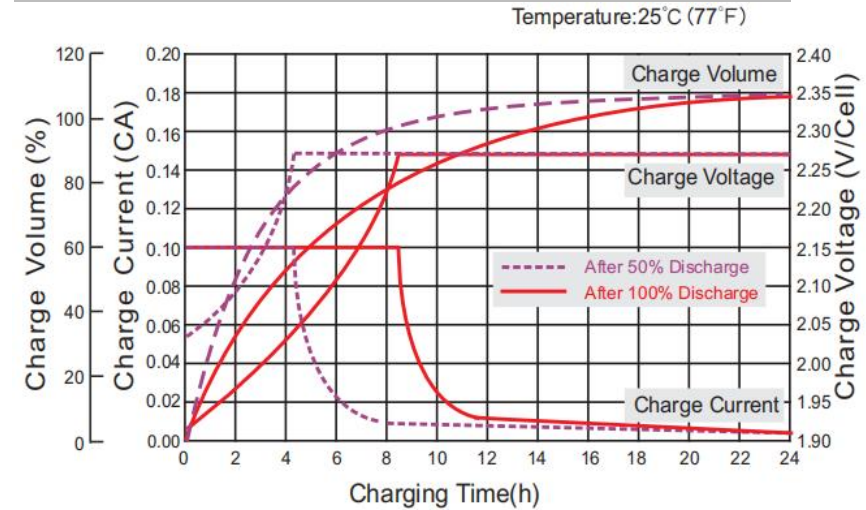
Discharge Characteristics Curve



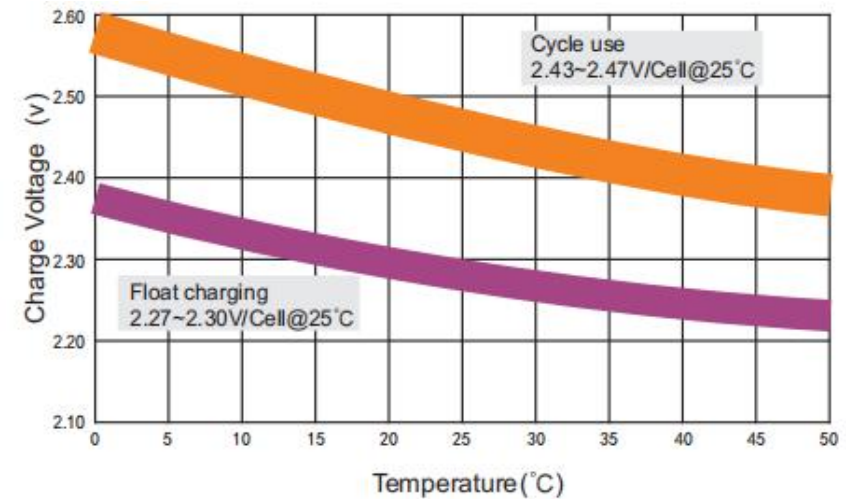
Cycle Life in Relation to Depth of Discharge



Charge Characteristics Curve For Standby Use(IU)

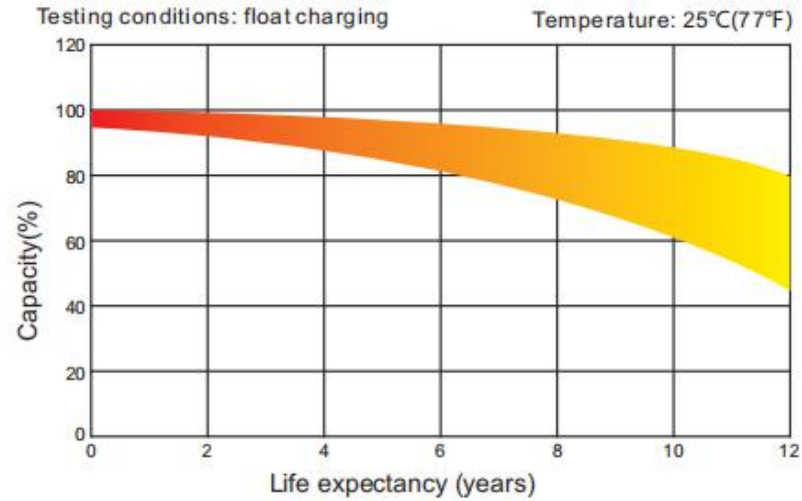


Relationship Between Charging Voltage and Temperature

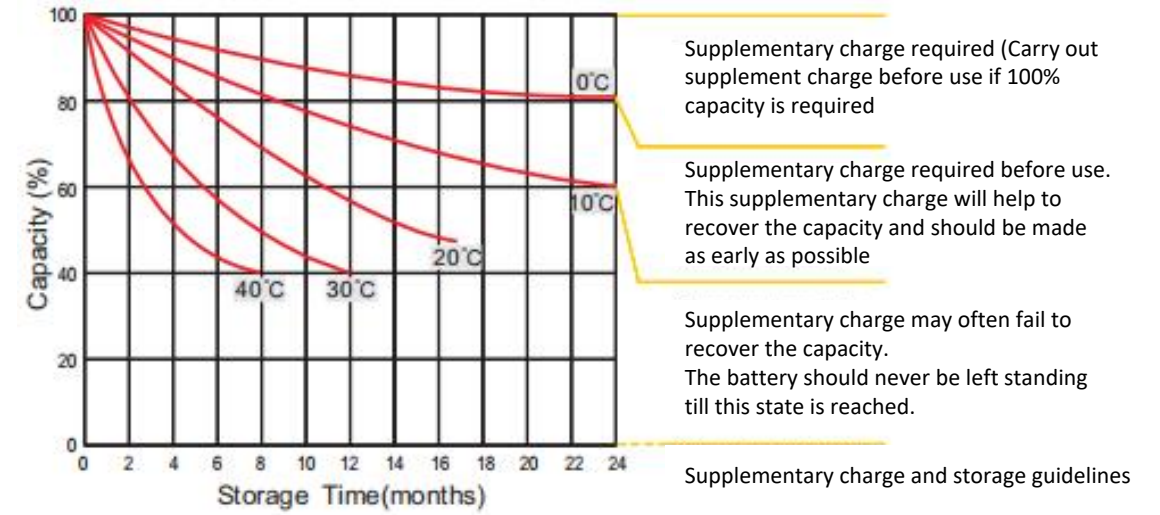


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

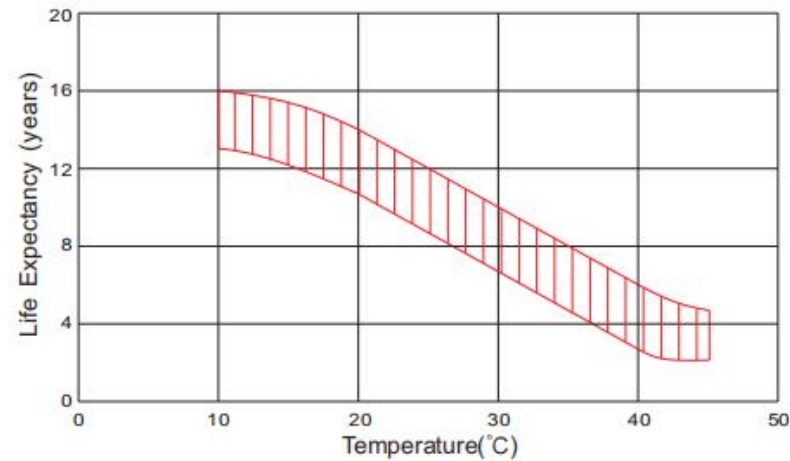
Life Characteristics of Standby Use



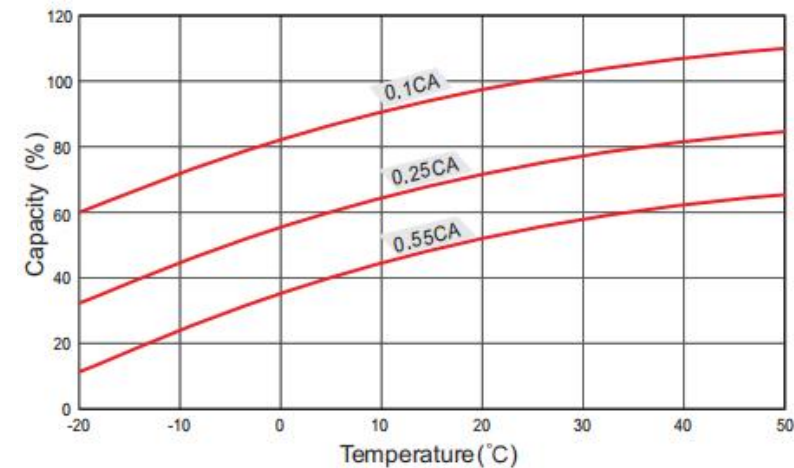
Storage Characteristics



Effect of Temperature on Longterm life



Temperature Effects On Capacity



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