

Model: GL12-110(12V 100Ah)

GL Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada, assembled in China.

Connecting To Legacy

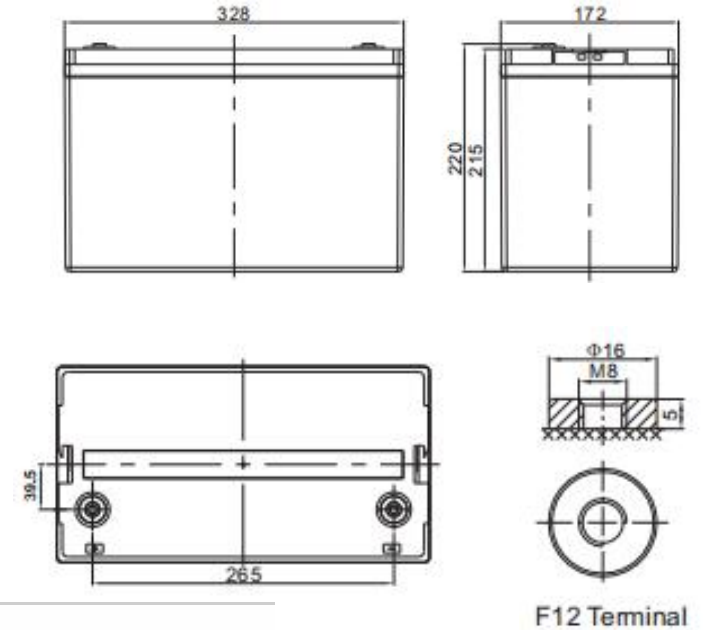
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

Introduction	GL12-110(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. 30.5 Kg (Tolerance±5%)
Terminal	Default F12(M8), F5(M8) and L7(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.



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.


GL12-110 Dimension

Parameters	GL12-110 (12V 110Ah)			
Cell Per Unit	6			
Voltage Per Unit	12V			
Nominal Capacity	110Ah @10hour-rate to 1.80V per cell @25°C			
Internal Resistance	≤5.0 mΩ(Full Charge Condition @25°C)			
Max. Discharge Current	1100A (5 sec)			
Max. Charging Current	33.0A			
Short Circuit Current	2300A			
Reference Capacity	C3:82.5Ah	C5:93.5Ah	C10: 110.0Ah	C20: 116.6Ah
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.			



GL12-110 Imagine


F.V/TIME	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	255.1	200.5	120.5	67.2	40.0	31.0	24.4	20.8	13.9	11.6	6.07
1.65V	241.0	191.7	115.6	64.9	38.8	30.1	23.7	20.2	13.8	11.5	5.97
1.70V	221.9	179.5	110.5	62.8	37.5	29.3	23.1	19.7	13.6	11.3	5.90
1.75V	203.1	167.1	105.6	60.5	36.2	28.4	22.5	19.2	13.4	11.1	5.83
1.80V	183.8	154.3	101.0	58.2	34.9	27.5	21.8	18.7	13.2	11.0	5.77
1.85V	150.3	128.0	87.0	52.2	32.0	25.4	20.3	17.4	12.4	10.4	5.48



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

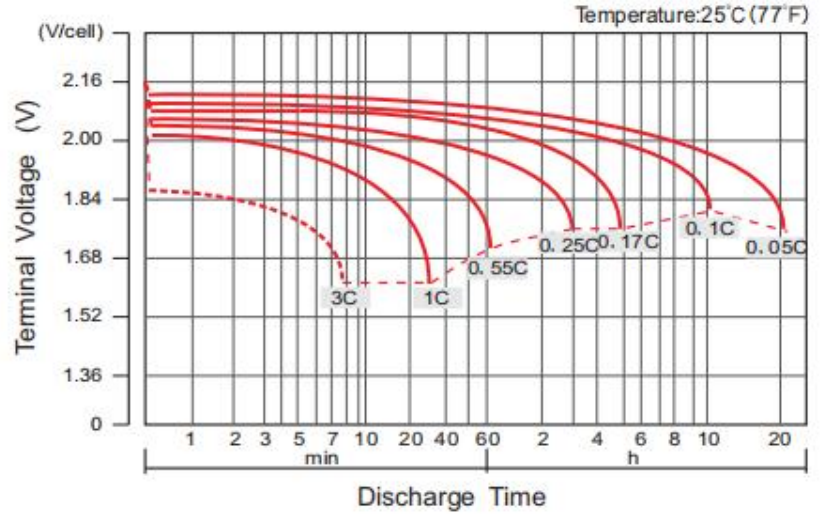
Model: GL12-110

F.V/TIME	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	433.5	350.5	218.8	126.3	75.9	59.3	46.8	40.0	27.2	22.8	12.0
1.65V	417.6	340.0	212.3	122.7	73.8	57.7	45.7	39.1	27.0	22.6	11.8
1.70V	391.5	323.2	204.9	119.4	71.8	56.4	44.6	38.2	26.6	22.3	11.7
1.75V	364.8	305.2	197.9	115.8	69.6	54.9	43.7	37.4	26.3	22.0	11.5
1.80V	336.0	285.8	191.0	112.0	67.4	53.4	42.6	36.6	25.9	21.7	11.4
1.85V	279.5	240.5	166.2	101.0	62.1	49.6	39.7	34.2	24.4	20.5	10.9

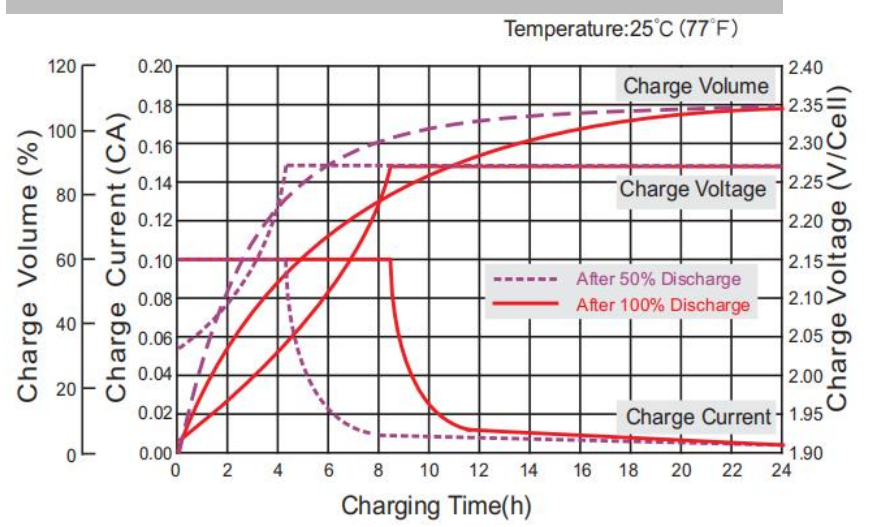


Constant Power Discharge
W/Cell (@ 77°F/25°C)

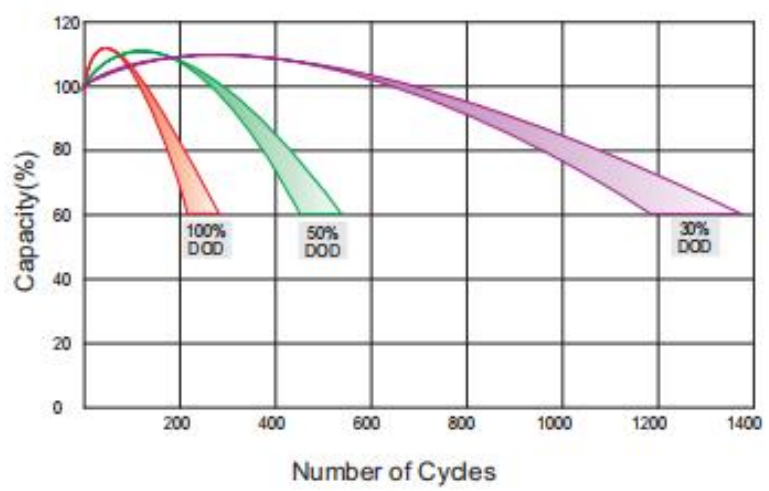
Discharge Characteristics Curve



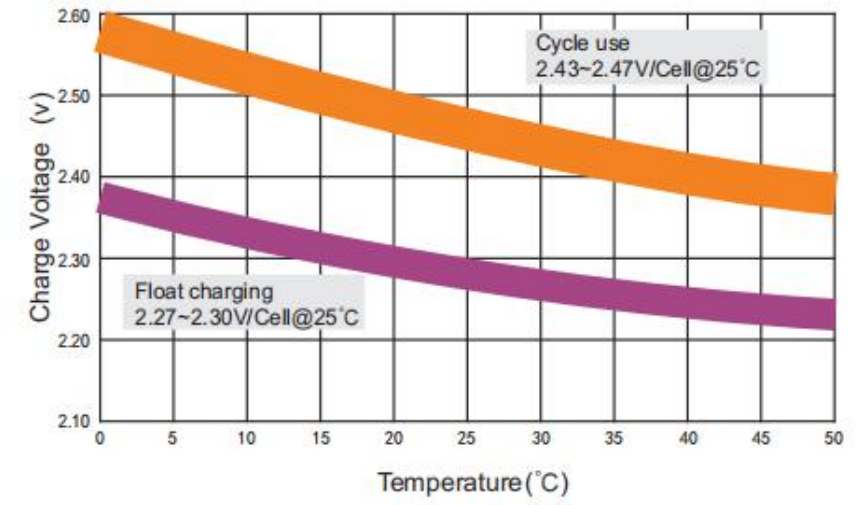
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

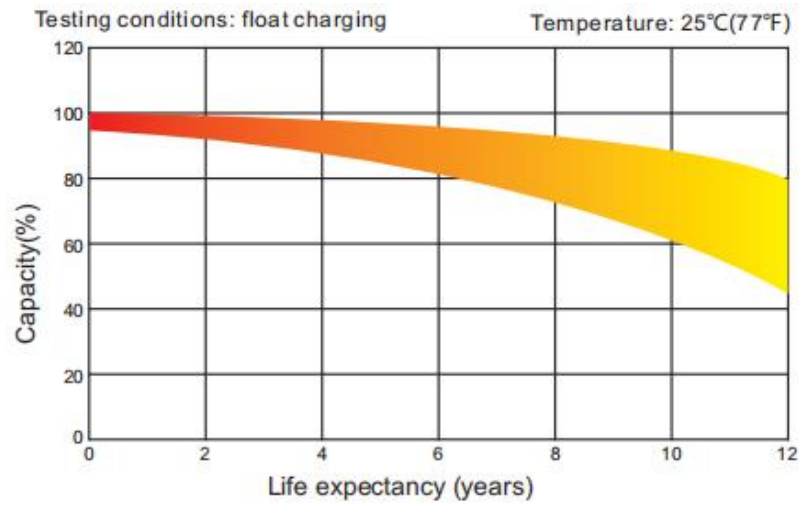


Relationship Between Charging Voltage and Temperature

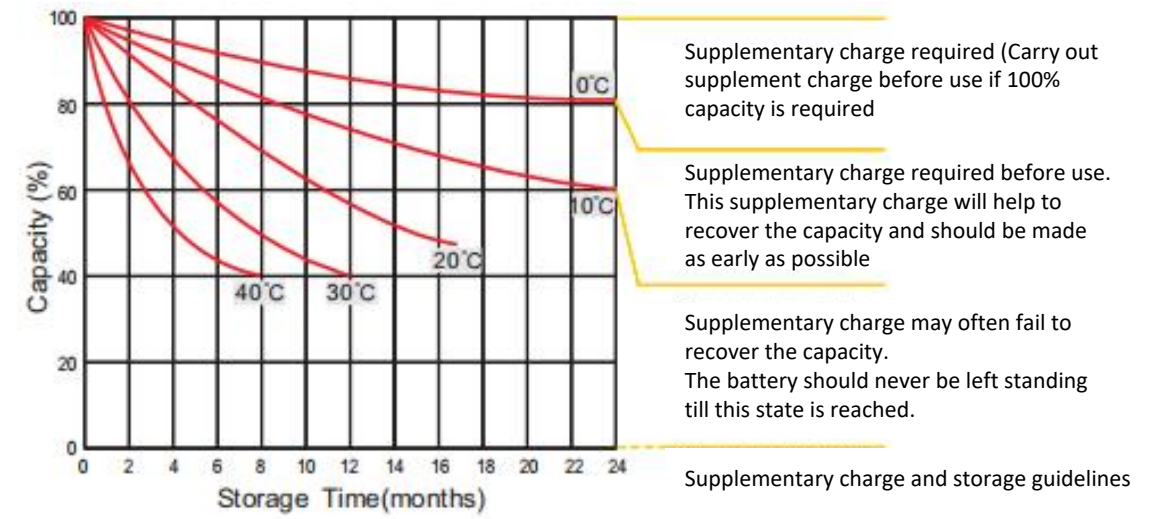


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

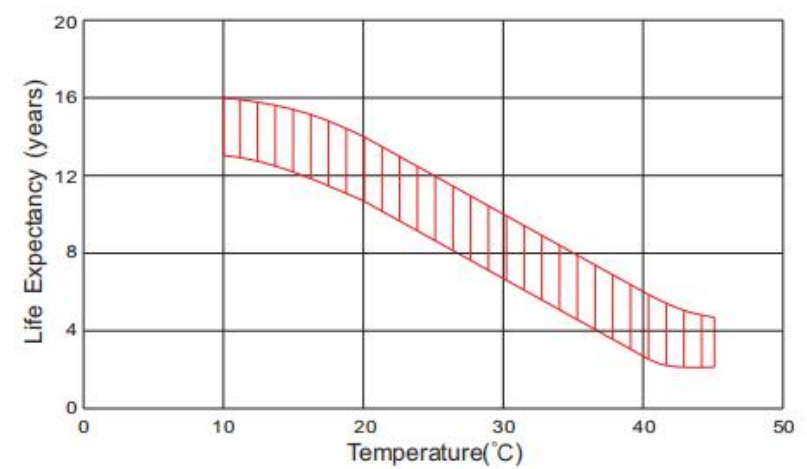
Life Characteristics of Standby Use



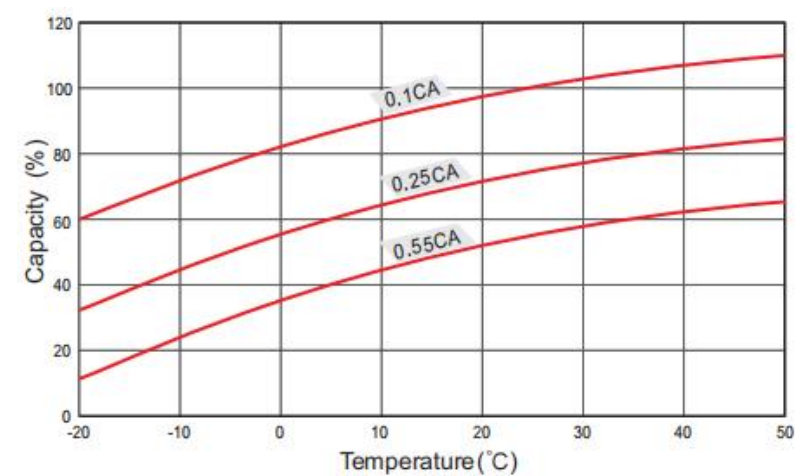
Storage Characteristics



Effect of Temperature on Longterm life



Temperautre Effects On Capacity



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