

Model: GW12-650W(12V 200Ah)

GW Series



Legacy Canadian products designed in Canada, assembled in China.

VLRA High Rate Discharge Battery

Connecting To Legacy Laval-Quebec-Canada Beirut-Lebanon Hongkong-China www.connectinglegacy.com



Introduction	GW12-650W(12V 200Ah)		2EGACY
Length	522±2mm (20.6 inches)		
Width	240±2mm (9.45 inches)	522	240
Height	219±2mm (8.62 inches)	4	224
Total Height	224±2mm (8.82 inches)		219
Weight	Approx. 58.0Kg (Tolerance±5%)		
Terminal	Default F10(M8), <i>Value:</i> 10~12N*m	205	Φ20 M8
Container Material	A.B.S. UL94-HB, <ul94-v0 optional=""></ul94-v0>		××××××××××××××××××××××××××××××××××××××
Design Life	15 years	140	
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.		F10 To residual
	Structure: Compact design of shorter internal connectors among cells for lower I.R.		F10 Terminal
	Plate: Pasted flat type with patent high rate formula of AM supports stable performation discharge.	ance during high current	GW12-650W Dimension
Features	Separator: Improved AGM seperator 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 discharg	e applications.	- 1

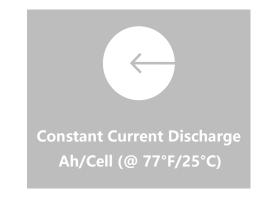


Parameters	GW12-650W (12V 200Ah)	
Cell Per Unit	6	
Voltage Per Unit	12V	
Nominal Capacity	650W@15min-rate to 1.67V per cell @25°C	
Internal Resistance	≤3.5 mΩ(Full Charge Condition @25°C)	LEGACY
Max. Discharge Current	2000A (5 sec)	N Ph
Max. Charging Current	60.0A	() () () () () () () () () ()
Short Circuit Current	3850A	
Reference Capacity	C10: 190.0Ah C20: 200.0Ah	
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.	

GW12-650W Imagine

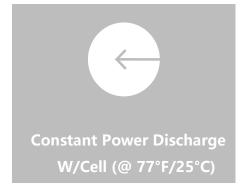


F.V/TIME	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	573.4	500.6	457.1	359.5	292.7	215.7	124.9	89.60
1.65V	520.3	459.1	422.5	335.2	275.1	119.1	119.1	85.95
1.70V	498.2	441.3	407.3	325.0	267.4	116.7	116.7	84.29
1.75V	460.0	411.0	381.3	307.5	254.0	112.7	112.7	81.64
1.80V	421.4	380.7	356.4	290.9	242.1	108.6	108.6	78.98
1.85V	361.7	324.3	301.9	250.2	210.1	98.12	98.12	72.01

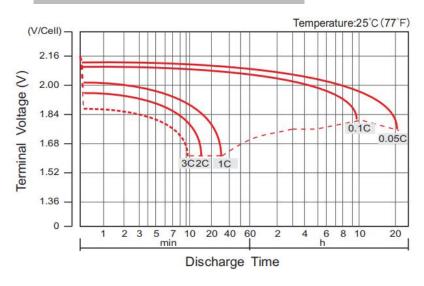


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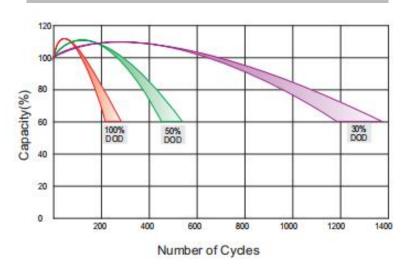
F.V/TIME	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	1054	932.3	859.8	685.2	562.5	419.2	234.5	169.6
1.65V	980.6	874.6	811.3	650.0	536.9	402.0	225.7	163.9
1.70V	948.3	848.4	788.7	634.9	525.3	393.9	222.0	161.6
1.75V	889.9	801.7	749.1	607.5	504.2	380.9	215.9	157.3
1.80V	828.3	752.6	707.4	580.5	485.2	367.5	209.4	153.0
1.85V	721.5	650.0	607.4	504.6	425.2	327.8	190.5	140.7



Discharge Characteristics Curve

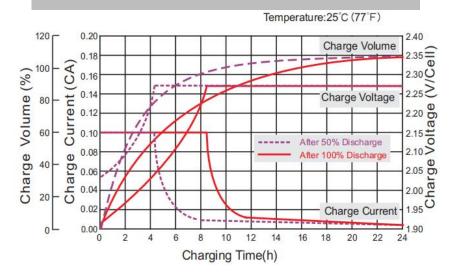


Cycle Life in Relation to Depth of Discharge

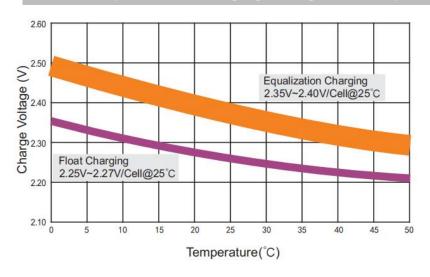


Charge Characteristics Curve For Standby Use(IU)



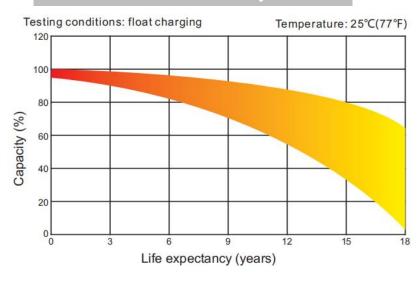


Relationship Between Charging Voltage and Temperture

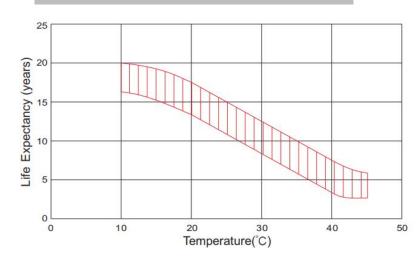


Note: The above datas are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the lastest information.

Life Characteristics of Standby Use

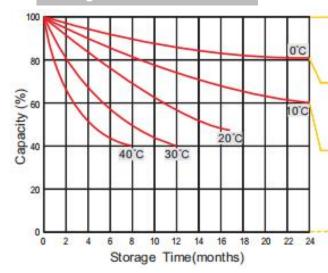


Effect of Temperture on Longterm life



Storage Characteristics





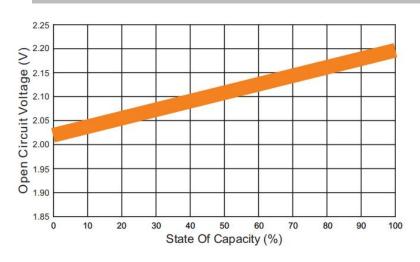
Supplementary charge required (Carry out supplement charge before use if 100% capacity is required

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

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



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