

Model: GW12-38W(12V 9Ah)

GW Series



Legacy Canadian products designed in Canada, assembled in China.

VLRA High Rate Discharge Battery

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🔎 Laval-Quebec-Canada

🔎 Beirut-Lebanon

🔎 Hongkong-China

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Introduction	GW12-38W(12V 9Ah)	
Length	151±1mm (5.94 inches)	
Width	65±1mm (2.56 inches)	151 65
Height	94±1mm (3.70 inches)	
Total Height	100±1mm (3.94 inches)	94 100
Weight	Approx. 2.70Kg (Tolerance±5%)	
Terminal	Default F2	
Container Material	A.B.S. UL94-HB, <ul94-v0 optional=""></ul94-v0>	
Design Life	8 years	
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc.	F2 Terminal
	Structure: Compact design of shorter internal connectors among cells for lower I.R.	GW12-38W Dimension
	Plate: Pasted flat type with patent high rate formula of AM supports stable performance during high curre discharge.	
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 discharge applications.	1

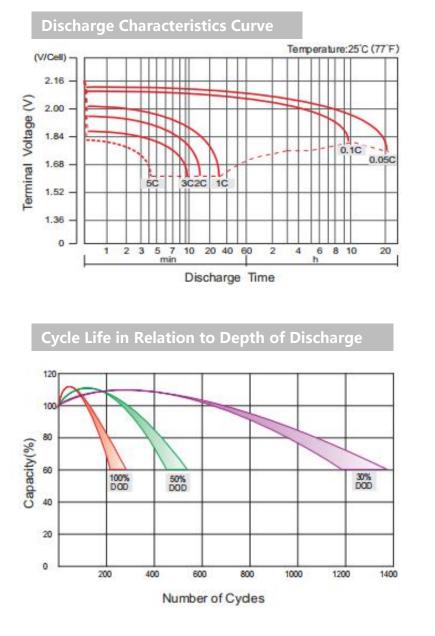
Parameters	GW12-38W(12V 9Ah)	
Cell Per Unit	6	
Voltage Per Unit	12V	
Nominal Capacity	38W@15min-rate to 1.67V per cell @25℃	
Internal Resistance	≤18.0 mΩ(Full Charge Condition @25°C)	
Max. Discharge Current	90A (5 sec)	
Max. Charging Current	2.7A	
Short Circuit Current	450A	Connecting To Legacy
Reference Capacity	C10: 8.5Ah C20: 9.0Ah	
Standby Use Voltage	13.70 V~13.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell	GW12-38W Imagine
Cycle Use Voltage	14.60 V~14.80 V @ 25°C Temperature Compensation: -4mV/°C/Cell	
Normal Operating Temperature Range	25℃±5℃	
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.	

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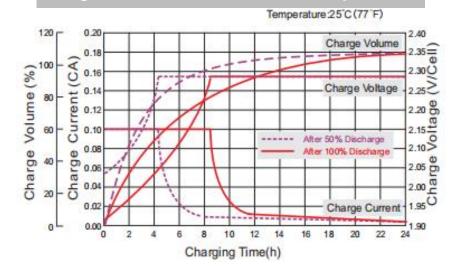
F.V/TIME	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	
1.60V	61.16	43.82	31.19	26.16	18.63	14.82	9.991	5.616	4.019	
1.65V	57.51	41.88	30.46	25.68	17.85	14.66	9.840	5.548	3.936	
1.70V	55.32	40.82	30.05	25.35	18.39	14.58	9.764	5.480	3.913	
1.75V	50.71	38.23	28.84	24.38	17.90	14.18	9.613	5.382	3.807	Constant Current Discharge
1.80V	46.01	34.99	26.89	23.00	17.09	13.69	9.386	5.238	3.716	Ah/Cell (@ 77°F/25°C)
1.85V	40.26	31.83	24.54	21.14	15.88	12.80	8.856	5.003	3.557	

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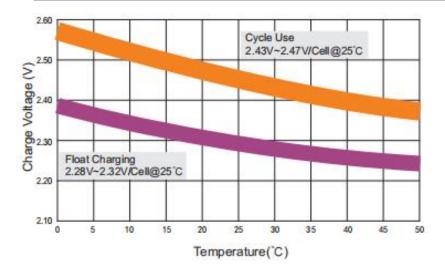
F.V/TIME	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	
1.60V	104.5	78.30	57.65	48.74	36.02	28.08	18.92	10.62	7.48	
1.65V	101.0	76.28	56.70	48.06	38.00	27.81	18.80	10.60	7.43	$\left(\leftarrow \right)$
1.70V	98.55	75.06	55.89	47.66	35.60	27.81	18.80	10.55	7.42	
1.75V	92.88	72.63	54.27	46.31	35.05	27.41	18.67	10.48	7.37	Constant Power Di
1.80V	86.40	68.18	51.71	44.42	33.81	26.60	18.29	10.31	7.27	W/Cell (@ 77°F/
1.85V	79.11	62.51	47.52	41.18	31.60	25.11	17.41	9.95	7.01	



Charge Characteristics Curve For Standby Use(IU)



Relationship Between Charging Voltage and Temperture



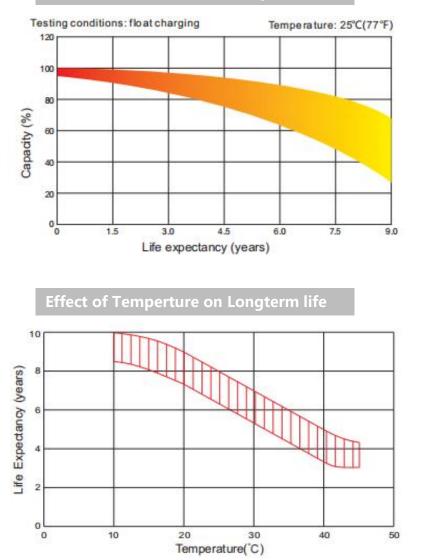
Note: The above datas are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the lastest information.

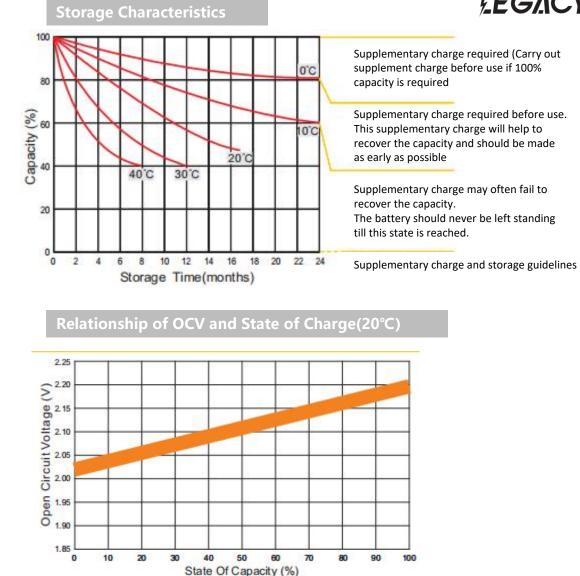
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Life Characteristics of Standby Use





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