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Model: GW12-300W(12V 80Ah)

GW Series

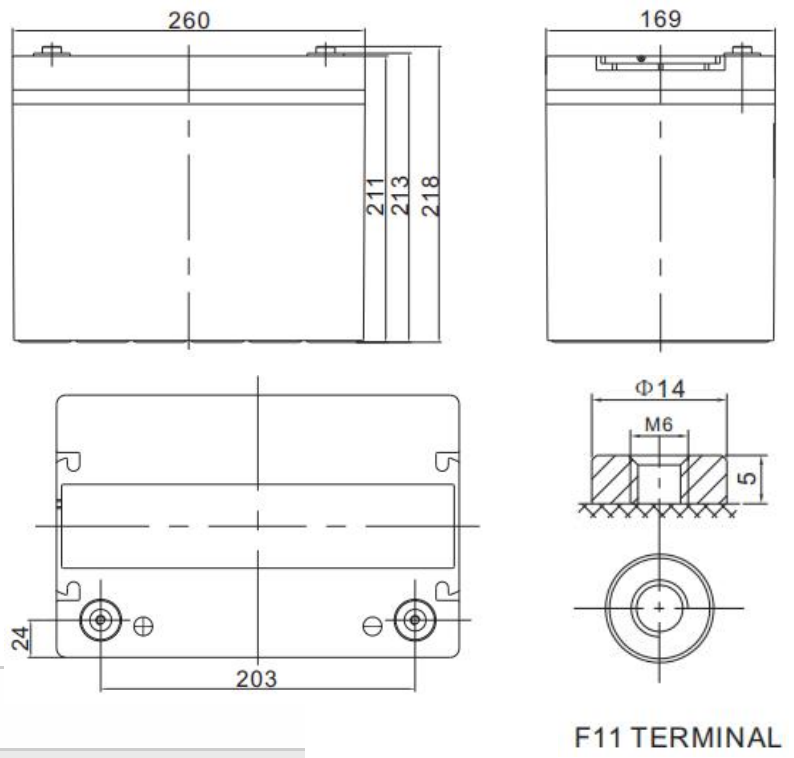
VLRA High Rate Discharge Battery

Legacy Canadian products designed in Canada,assembled in China.

Connecting To Legacy

- *Laval-Quebec-Canada*
- *Beirut-Lebanon*
- *Hongkong-China*
- *www.connectinglegacy.com*

Introduction	GW12-300W(12V 80Ah)
Length	260±2mm (10.2 inches)
Width	169±2mm (6.65 inches)
Height	211±2mm (8.31 inches)
Total Height	216±2mm (8.50 inches)
Weight	Approx. 25.5Kg (Tolerance±5%)
Terminal	Default F11(M6), *Value: 8~10N*m*
Container Material	A.B.S. UL94-HB, <UL94-V0 Optional>
Design Life	15 years
Application	UPS/EPS,Electric Tools,Toys,Medical,Wheelchair 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 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.



GW12-300W Dimension

Parameters	GW12-300W(12V 80Ah)
Cell Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	300W@15min-rate to 1.67V per cell @25℃
Internal Resistance	≤5.8 mΩ(Full Charge Condition @25℃)
Max. Discharge Current	800A (5 sec)
Max. Charging Current	24.0A
Short Circuit Current	1900A
Reference Capacity	C10: 75.0Ah C20: 80.0Ah
Standby Use Voltage	13.50 V~13.62 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.10 V~14.40 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Normal Operating Temperature Range	25℃±5℃
Operating Temperature Range	Discharge and Storage : -20℃~60℃ Charge: 0℃~50℃
Self Discharge	Monthly Self-discharge ratio is less than 3% at 25℃
Note	Legacy GW batteries can be stored for up to 6 months at 25℃ and recharging is recommended. Please charged batteries before using.

GW12-300W Imagine

F.V/TIME	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	269.8	228.3	208.7	165.9	135.1	99.55	57.61	41.34
1.65V	244.8	209.3	192.9	154.7	127.0	94.20	54.96	39.66
1.70V	234.4	201.2	185.9	150.0	123.4	91.93	53.86	38.89
1.75V	216.4	187.4	174.3	141.9	117.2	88.04	51.99	37.67
1.80V	198.3	173.6	162.7	134.2	111.7	84.31	50.12	36.44
1.85V	170.2	147.9	137.8	115.4	96.96	74.58	45.28	33.23

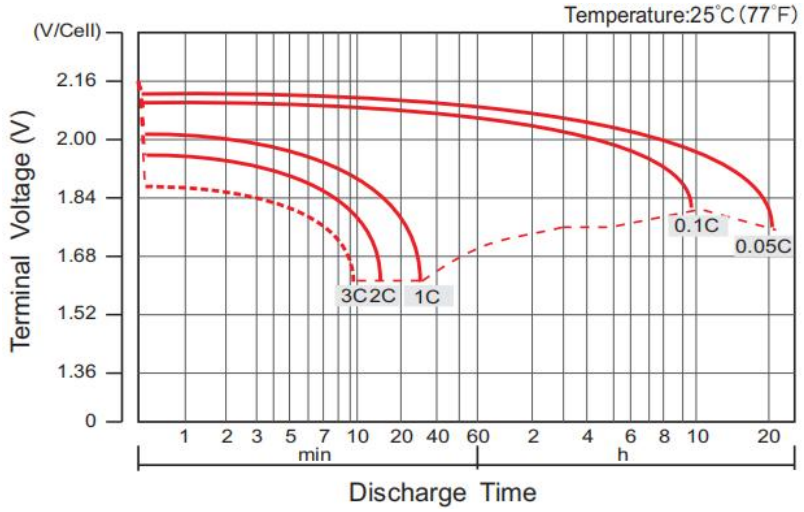
Constant Current Discharge Ah/Cell (@ 77°F/25°C)

Model: GW12-300W

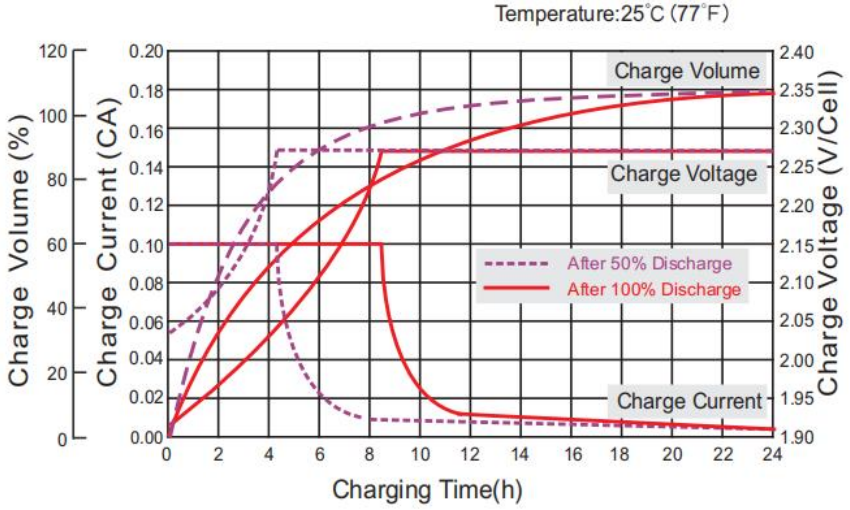
F.V/TIME	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	495.7	425.1	392.6	316.2	259.6	193.4	108.2	78.25
1.65V	461.3	398.8	370.4	300.0	247.7	185.5	104.1	75.64
1.70V	446.2	386.9	360.1	293.0	242.4	181.8	102.4	74.57
1.75V	418.7	365.6	342.0	280.3	232.7	175.8	99.61	72.58
1.80V	389.7	343.2	323.0	267.8	223.9	169.6	96.64	70.59
1.85V	339.5	296.4	277.3	232.8	196.2	151.3	87.90	64.93

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

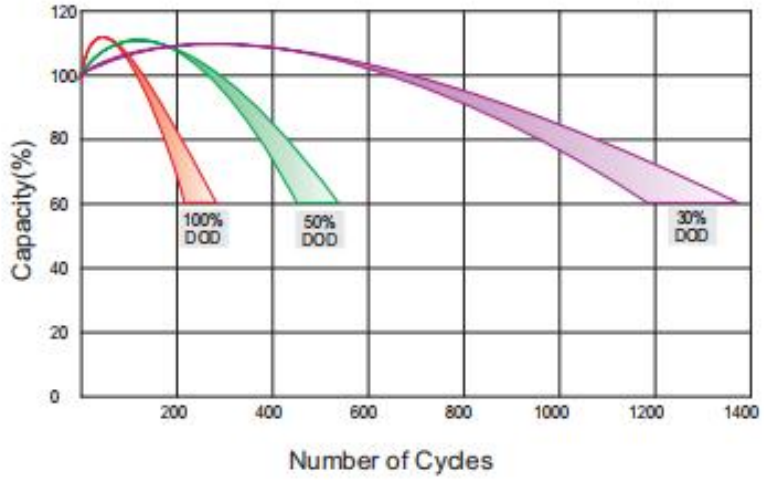
Discharge Characteristics Curve



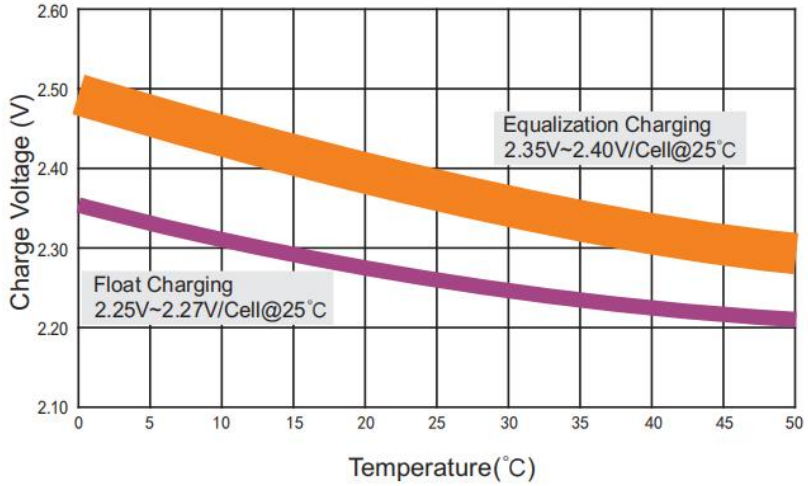
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

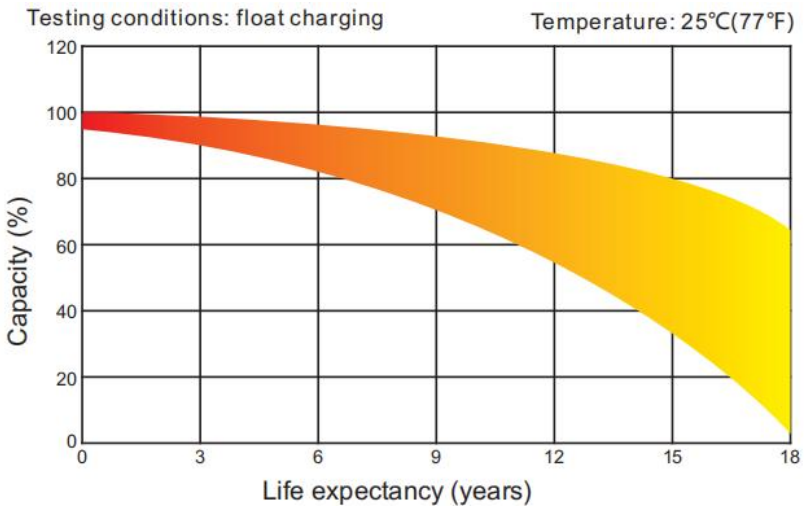


Relationship Between Charging Voltage and Temperture

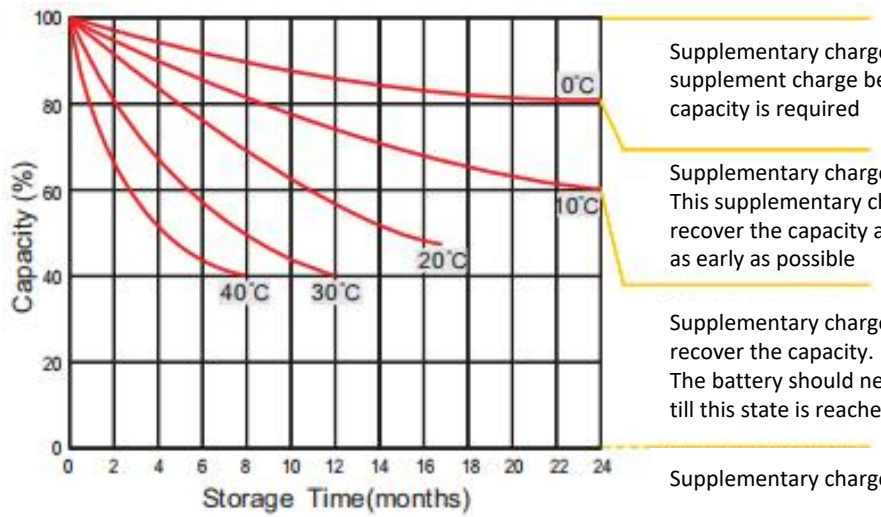


Note:The above datas are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the lastest information.

Life Characteristics of Standby Use



Storage Characteristics



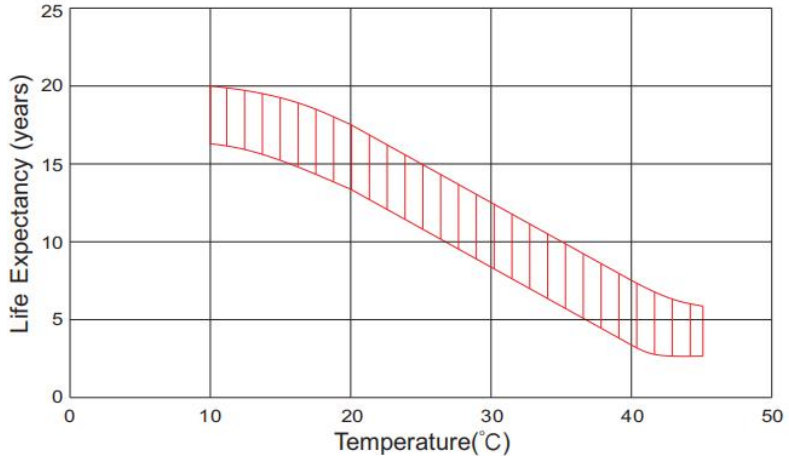
Supplementary charge required (Carry out supplement charge before use if 100% capacity is required

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

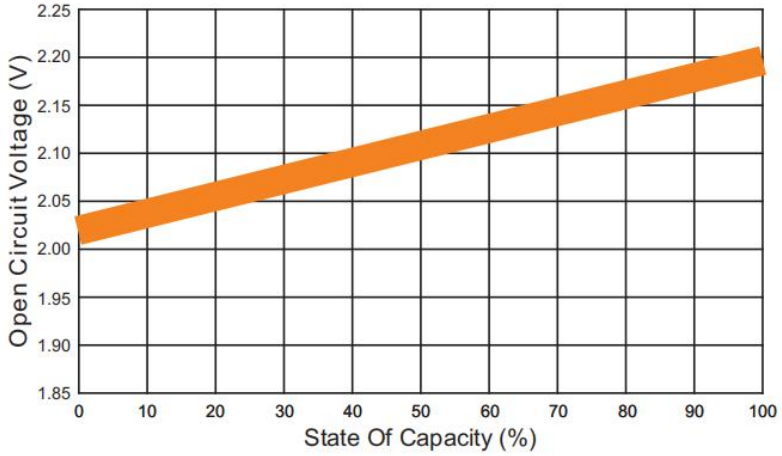
Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this state is reached.

Supplementary charge and storage guidelines

Effect of Temperture on Longterm life



Relationship of OCV and State of Charge(20℃)



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