

Model: GW12-96W(12V 24Ah)

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

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| Introduction | GW12-96W(12V 24Ah) | | , |
|--------------------|---|--|--|
| Length | 166±1.5mm (6.54 inches) | | |
| Width | 176±1.5mm (6.93 inches) | | |
| Height | 125±1.5mm (4.92 inches) | | |
| Total Height | 125±1.5mm (4.92 inches) | 125 | |
| Weight | Approx. 8.10Kg (Tolerance±5%) | ļ <u>į </u> | ĹĹ |
| Terminal | Default F13-BP(M5), Value: 6~7N*m | | Φ12 M5 |
| Container Material | A.B.S. UL94-HB, <ul94-v0 optional=""></ul94-v0> | 9 | in the second se |
| Design Life | 8 years | ● ● ● ● | |
| Application | UPS/EPS,Electric Tools,Toys,Medical,Wheelchair and Security System etc. | 1 <u>38.5</u> 166 | F13-BPTERMINAL |
| Features | Structure: Compact design of shorter internal connectors among cells for lower I.R. | GW12-96W Dimension | |
| | Plate: Pasted flat type with patent high rate formula of AM supports stable performa discharge. | GWTZ-96W DIMENSION | |
| | 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 | e applications. | 1 |

| Parameters | GW12-96W(12V 24Ah) | |
|------------------------------------|--|---|
| Cell Per Unit | 6 | |
| Voltage Per Unit | 12V | |
| Nominal Capacity | 96W@15min-rate to 1.67V per cell @25°C | - //- |
| Internal Resistance | ≤10.0 mΩ(Full Charge Condition @25°C) | |
| Max. Discharge Current | 240A (5 sec) | connecting to |
| Max. Charging Current | 7.2A | |
| Short Circuit Current | 950A | Pb A A O O O O O Conversion of the second |
| Reference Capacity | C10: 22.6Ah C20: 24.0Ah | |
| Standby Use Voltage | 13.70 V~13.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell | GW12-96W 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 $25^\circ C$ and recharging is recommended. Please charged batteries before using. | |

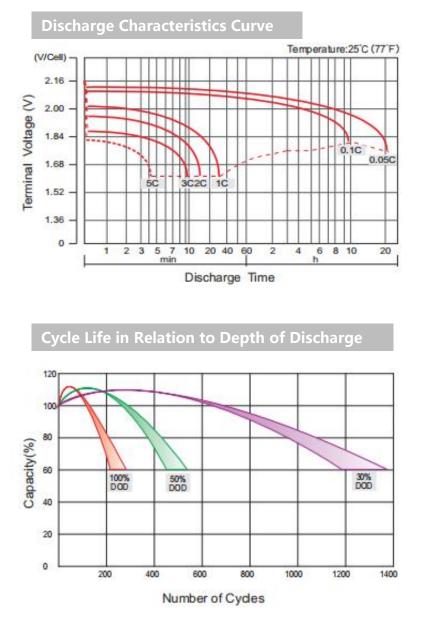
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| F.V/TIME | 3MIN | 5MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 60MIN | 90MIN | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| 1.60V | 112.7 | 99.03 | 80.89 | 70.85 | 55.60 | 43.70 | 31.14 | 17.46 | 12.38 | |
| 1.65V | 102.2 | 89.87 | 73.97 | 65.31 | 52.00 | 41.25 | 29.50 | 16.64 | 11.85 | \leftarrow |
| 1.70V | 97.83 | 85.99 | 71.02 | 62.93 | 50.40 | 40.15 | 28.77 | 16.28 | 11.63 | |
| 1.75V | 90.61 | 79.65 | 66.17 | 58.97 | 47.60 | 38.15 | 27.57 | 15.73 | 11.27 | Constant Current Discharge |
| 1.80V | 82.99 | 72.95 | 61.16 | 55.01 | 45.20 | 36.35 | 26.37 | 15.14 | 10.88 | Ah/Cell (@ 77°F/25°C) |
| 1.85V | 70.69 | 62.38 | 52.11 | 46.70 | 38.76 | 31.57 | 23.32 | 13.69 | 9.947 | |

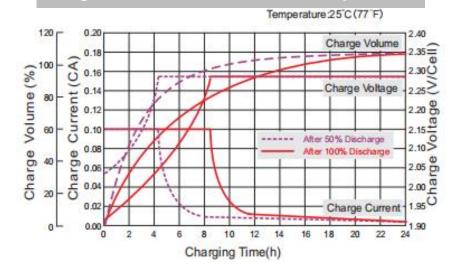
Model: GW12-96W

| F.V/TIME | 3MIN | 5MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 60MIN | 90MIN |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 202.5 | 178.0 | 145.9 | 128.2 | 101.6 | 80.46 | 57.55 | 32.74 | 23.43 |
| 1.65V | 186.0 | 163.5 | 135.2 | 119.9 | 96.00 | 76.78 | 55.40 | 31.51 | 22.64 |
| 1.70V | 179.6 | 157.9 | 130.9 | 116.4 | 94.00 | 75.15 | 54.11 | 31.01 | 22.28 |
| 1.75V | 168.0 | 147.7 | 123.3 | 110.4 | 89.60 | 72.29 | 52.40 | 30.15 | 21.71 |
| 1.80V | 156.0 | 137.1 | 115.3 | 104.1 | 85.60 | 69.43 | 50.68 | 29.29 | 21.13 |
| 1.85V | 135.5 | 119.1 | 99.65 | 89.45 | 74.40 | 60.85 | 45.09 | 26.65 | 19.41 |

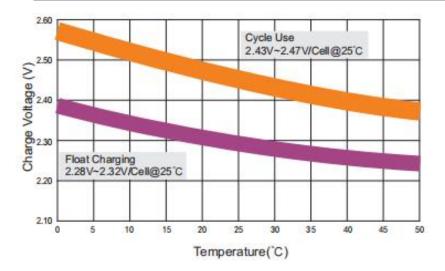
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Charge Characteristics Curve For Standby Use(IU)



Relationship Between Charging Voltage and Temperture



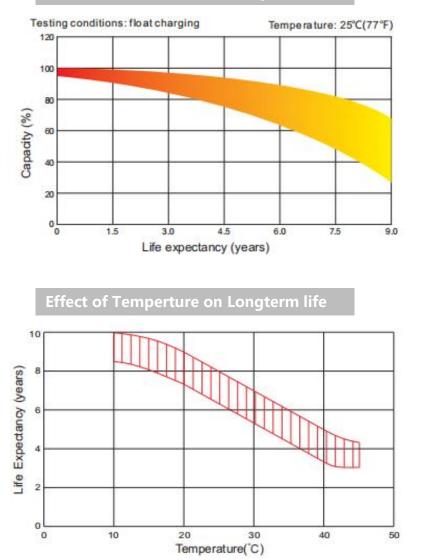
Note: The above datas are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the lastest information.

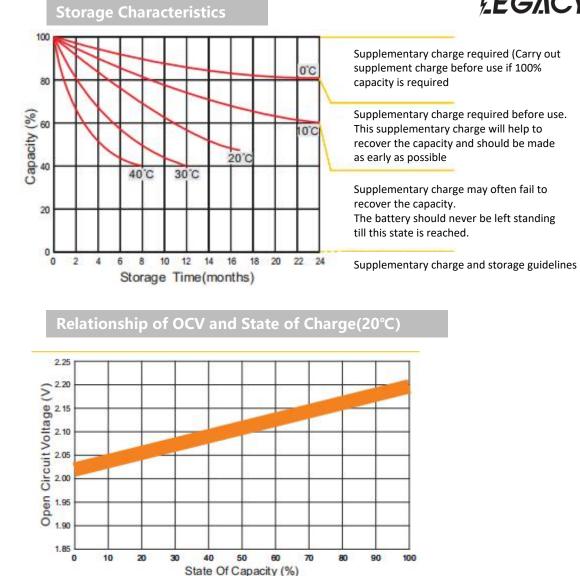
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Life Characteristics of Standby Use





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