

Model: GW12-570WL(12V 150Ah)

GW Series

VLRA High Rate Discharge Battery



Legacy Canadian products designed in Canada,assembled in China.

Connecting To Legacy

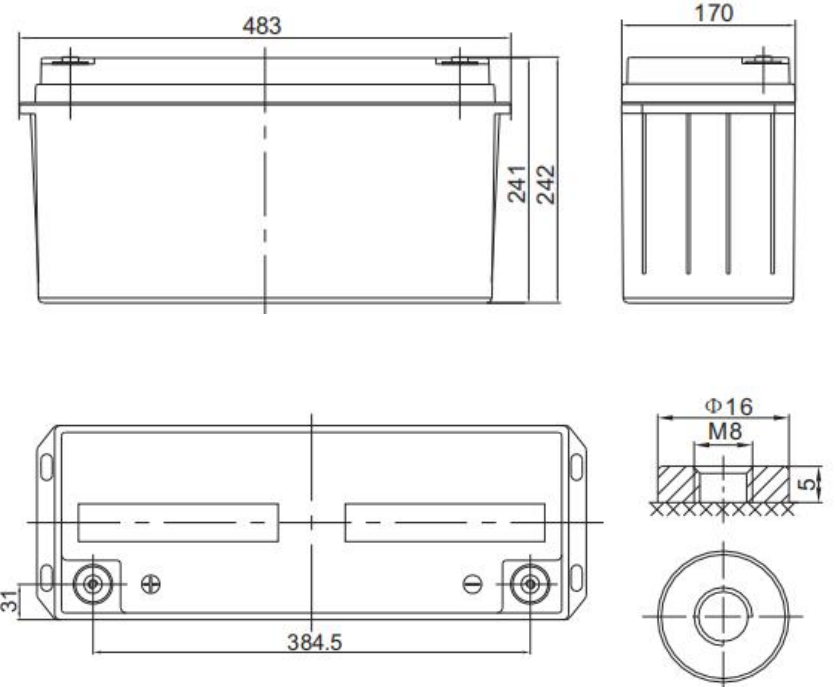
📍 Laval-Quebec-Canada

📍 Beirut-Lebanon

📍 Hongkong-China

🔍 www.connectinglegacy.com

| | |
|--------------------|---|
| Introduction | GW12-570WL(12V 150Ah) |
| Length | 483±2mm (19.0 inches) |
| Width | 170±2mm (6.69 inches) |
| Height | 241±2mm (9.49 inches) |
| Total Height | 242±2mm (9.53 inches) |
| Weight | Approx. 46.0Kg (Tolerance±5%) |
| Terminal | Default F12(M8), Value: 10~12N*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. |



F12 Terminal

GW12-570WL Dimension

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 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.


Features

| | |
|------------------------------------|--|
| Parameters | GW12-570WL (12V 150Ah) |
| Cell Per Unit | 6 |
| Voltage Per Unit | 12V |
| Nominal Capacity | 570W@15min-rate to 1.67V per cell @25°C |
| Internal Resistance | ≤3.8 mΩ(Full Charge Condition @25°C) |
| Max. Discharge Current | 1500A (5 sec) |
| Max. Charging Current | 45.0A |
| Short Circuit Current | 3100A |
| Reference Capacity | C10: 141.5Ah C20: 150.0Ah |
| 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. |



GW12-570WL Imagine


| F.V/TIME | 5 MIN | 8 MIN | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 60 MIN | 90 MIN |
|----------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1.60V | 467.1 | 414.9 | 384.2 | 315.2 | 256.7 | 189.2 | 109.5 | 78.57 |
| 1.65V | 423.8 | 380.5 | 355.1 | 293.2 | 241.3 | 179.0 | 104.4 | 75.37 |
| 1.70V | 405.8 | 365.7 | 342.3 | 285.0 | 234.5 | 174.7 | 102.4 | 73.91 |
| 1.75V | 374.7 | 340.7 | 320.9 | 269.6 | 222.8 | 167.3 | 98.80 | 71.59 |
| 1.80V | 343.3 | 315.5 | 299.5 | 255.1 | 212.3 | 160.2 | 95.24 | 69.26 |
| 1.85V | 294.6 | 268.8 | 253.8 | 219.4 | 184.3 | 141.7 | 86.04 | 63.15 |



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

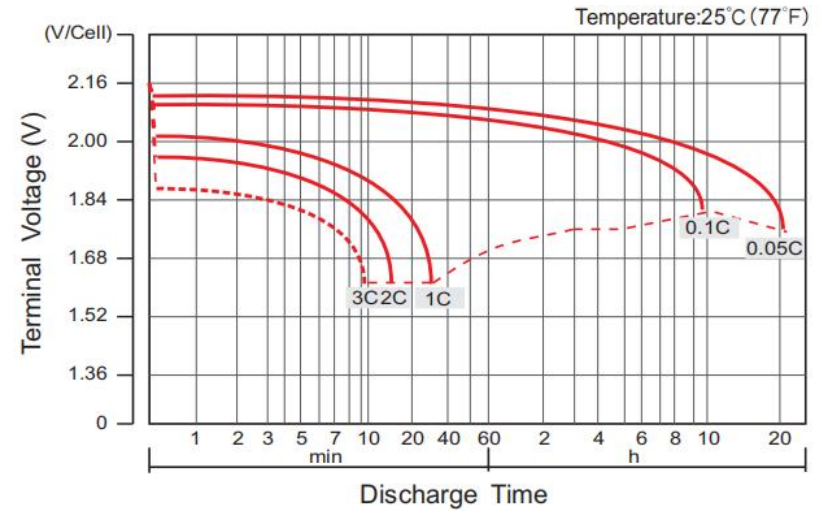
Model: GW12-570WL

| F.V/TIME | 5 MIN | 8 MIN | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 60 MIN | 90 MIN |
|----------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1.60V | 858.2 | 772.7 | 722.7 | 600.8 | 493.3 | 367.6 | 205.6 | 148.7 |
| 1.65V | 798.8 | 724.9 | 682.0 | 570.0 | 470.8 | 352.5 | 197.9 | 143.8 |
| 1.70V | 772.5 | 703.2 | 663.0 | 556.8 | 460.6 | 345.4 | 194.6 | 141.7 |
| 1.75V | 724.9 | 664.5 | 629.7 | 532.7 | 442.1 | 334.0 | 189.3 | 137.9 |
| 1.80V | 674.7 | 623.8 | 594.6 | 509.0 | 425.5 | 322.3 | 183.7 | 134.1 |
| 1.85V | 587.7 | 538.8 | 510.5 | 442.5 | 372.8 | 287.5 | 167.0 | 123.4 |

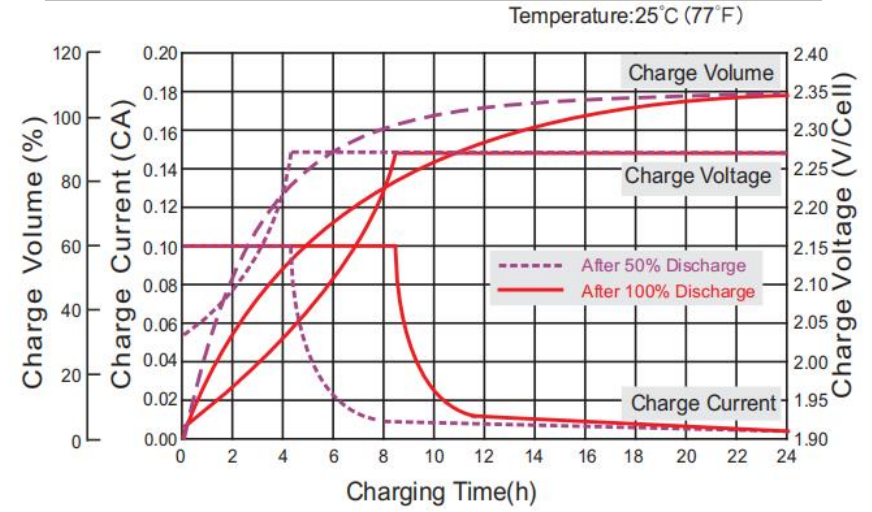


Constant Power Discharge
W/Cell (@ 77°F/25°C)

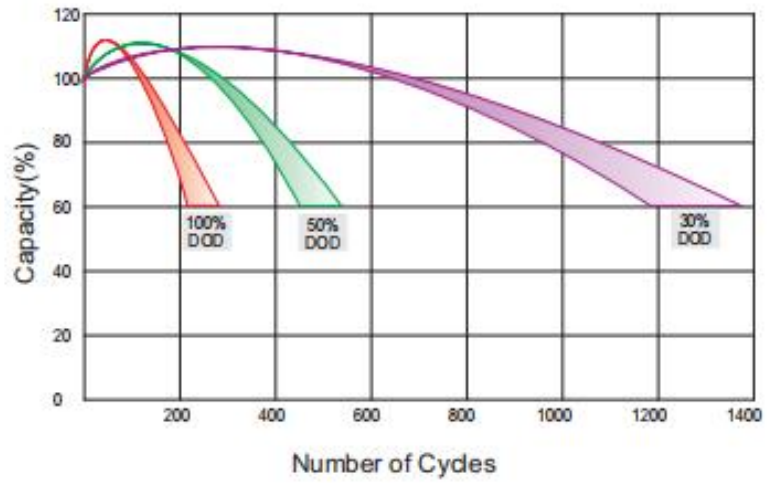
Discharge Characteristics Curve



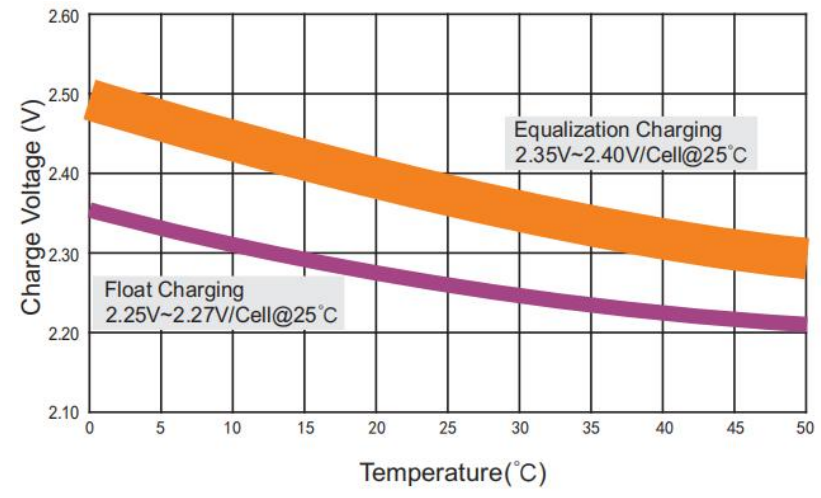
Charge Characteristics Curve For Standby Use(IU)



Cycle Life in Relation to Depth of Discharge

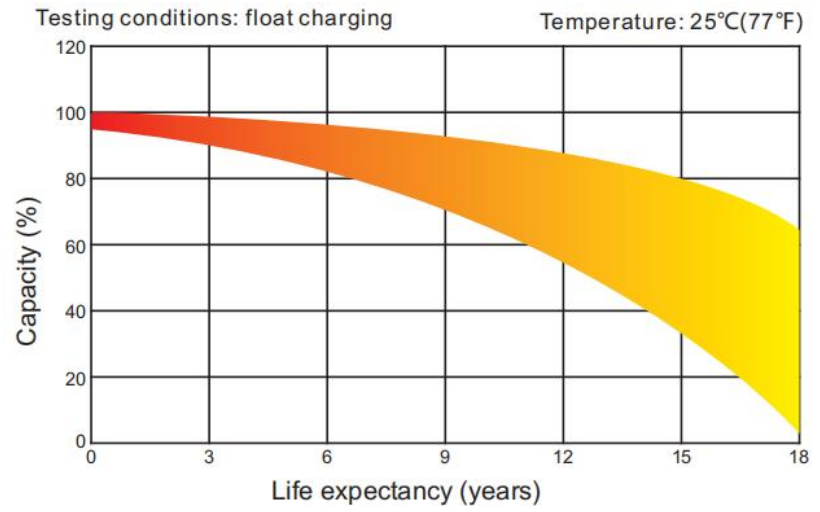


Relationship Between Charging Voltage and Temperature

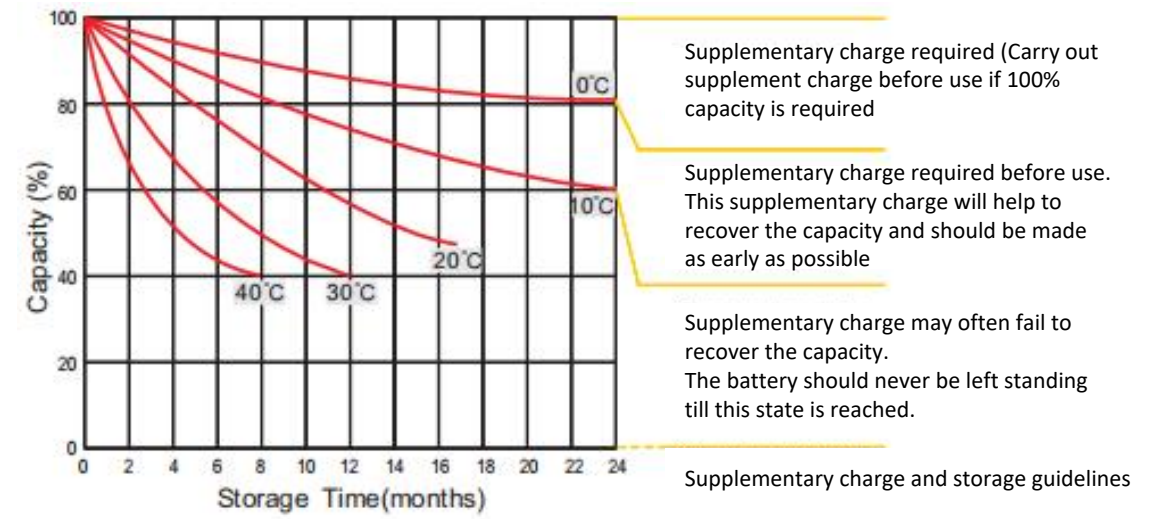


Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Legacy reserves the right to explain and update the latest information.

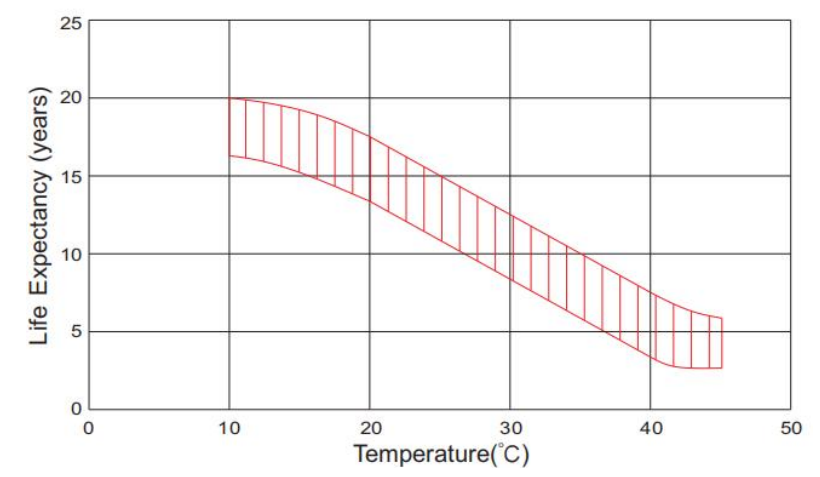
Life Characteristics of Standby Use



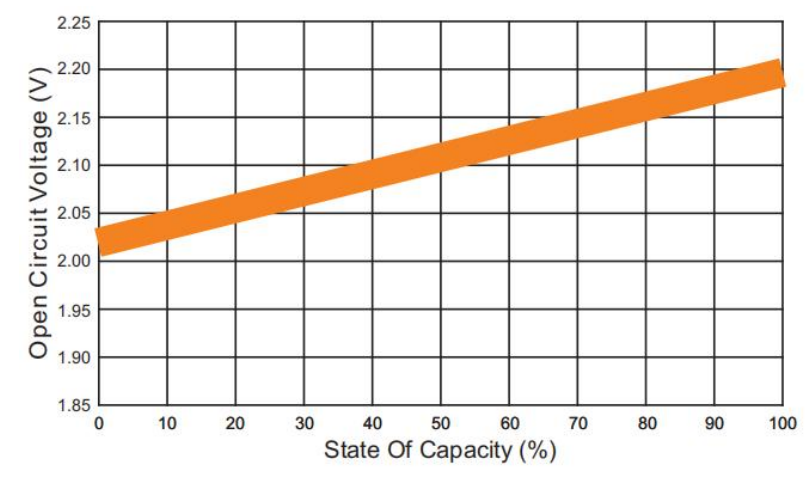
Storage Characteristics



Effect of Temperature on Longterm life



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



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