



GEL Battery

Gelled Silica technology for superior performance. Valve regulated, spill proof construction allows safe operation in any position. Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified. U.L. recognized under file number MH 20567.

UPG No. D5874

UB-30H

Maintenance-Free

Specification

| | | | |
|---|----------------------|-----------|------|
| Nominal Voltage | 12 volts | | |
| Nominal Capacity | 77° F (25° C) | | |
| 20-hr. (5.00A) | 100 Ah | | |
| 10-hr. (9.30A) | 93 Ah | | |
| 5-hr. (17.00A) | 85 Ah | | |
| 1-hr. (60.00A) | 60 Ah | | |
| Approximate Weight | 67.24 lbs (30.5 kgs) | | |
| Internal Resistance (approx.) | 5mΩ | | |
| Shelf Life (% of normal capacity at 77° F (25° C)) | | | |
| 3 Months | 6 Months | 12 Months | |
| 91% | 82% | 64% | |
| Temperature Dependency of Capacity | (20 hour rate) | | |
| 104° F | 77° F | 32° F | 5° F |
| 102% | 100% | 85% | 65% |



Charge Method (Constant Voltage)

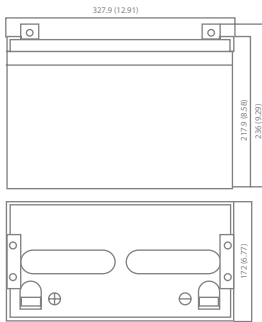
Cycle Use (Repeating Use)

| | |
|-----------------|-----------------|
| Initial Current | 20 A or smaller |
| Control Voltage | 14.2 - 14.4 V |

Float Use

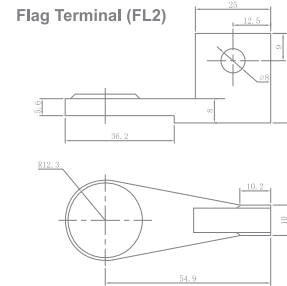
| | |
|-----------------|---------------|
| Control Voltage | 13.2 - 13.4 V |
|-----------------|---------------|

Physical Dimensions: in (mm)



L: 12.91 in (327.9 mm)
W: 6.77 in (172.0 mm)
H: 8.58 in (217.9 mm)
TH: 9.29 in (236.0 mm)
Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

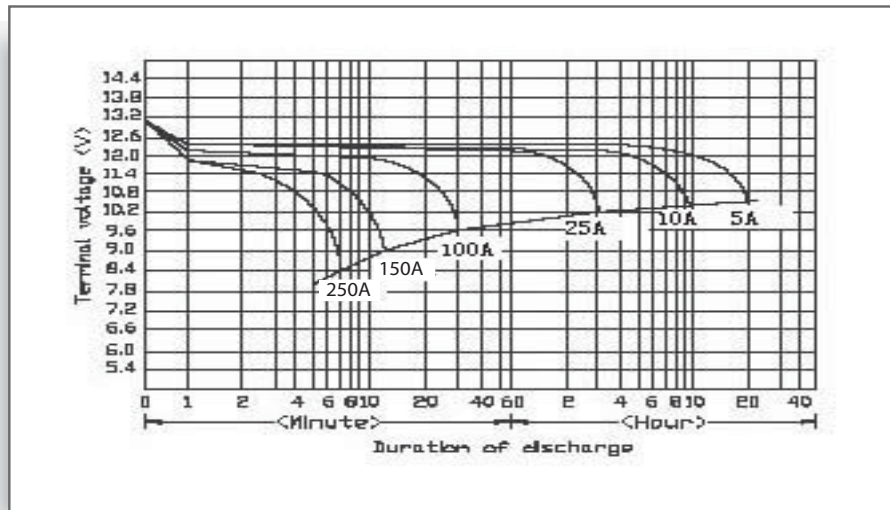
Terminals



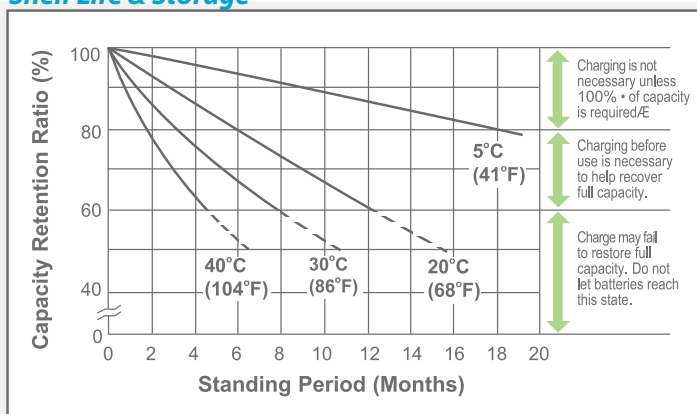
Constant Current Discharge Characteristics Unit:W (25°C, 77°F)

| F.V/Time | 5MIN | 10MIN | 30MIN | 60MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 7HR | 8HR | 10HR | 20HR | 24HR |
|----------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.90V | 156 | 110 | 75.0 | 45.9 | 28.9 | 21.0 | 16.8 | 14.7 | 12.0 | 10.6 | 9.5 | 8.4 | 4.3 | 3.6 |
| 1.85V | 203 | 136 | 92.0 | 53.7 | 31.4 | 22.8 | 18.0 | 15.7 | 12.9 | 11.3 | 10.1 | 8.8 | 4.6 | 3.9 |
| 1.80V | 240 | 151 | 99.0 | 57.7 | 32.0 | 24.2 | 19.0 | 16.6 | 13.6 | 11.9 | 10.7 | 9.0 | 4.8 | 4.1 |
| 1.75V | 274 | 162 | 105 | 60.0 | 34.0 | 25.0 | 19.6 | 17.0 | 14.0 | 12.3 | 11.0 | 9.3 | 5.0 | 4.1 |

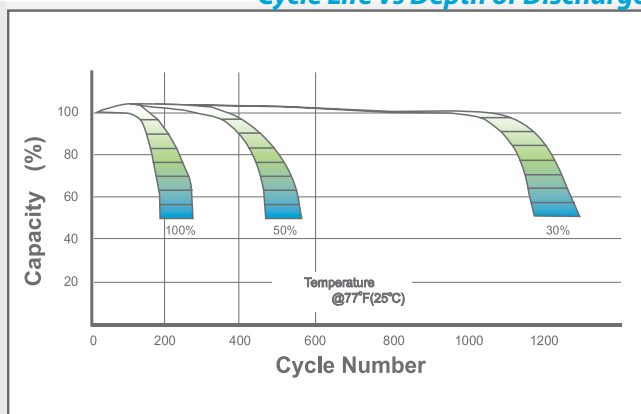
Discharge Characteristics



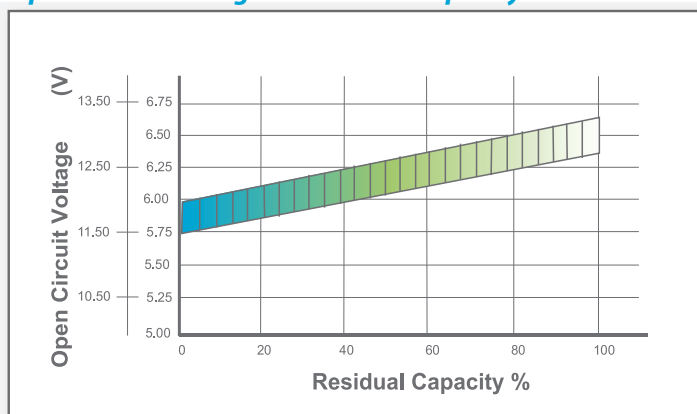
Shelf Life & Storage



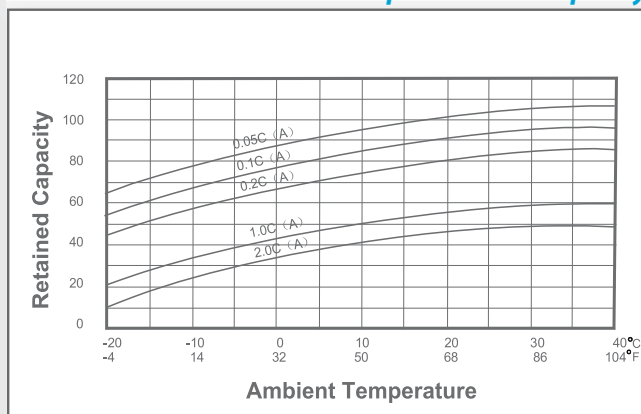
Cycle Life vs Depth of Discharge



Open Circuit Voltage vs Residual Capacity



Effect of Temperature on Capacity



Charge Current & Final Discharge Voltage

| Application | Charge Voltage(V/Cell) | | | Max.Charge Current | Final Discharge Voltage V/Cell | 1.75 | 1.70 | 1.60 | 1.30 |
|-------------|------------------------|-----------|-----------------|--------------------|--------------------------------|----------|---------------|---------------|----------|
| | Temperature | Set Point | Allowable Range | | | | | | |
| Cycle Use | 25°C(77°F) | 2.40 | 2.36-2.40 | 0.20C | Discharge | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |
| Standby | 25°C(77°F) | 2.23 | 2.20-2.35 | | | | | | |



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