

Kinetik[®] PRO GEL

UPG No. 47600

KU1

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.

Maintenance - Free

Specification

| | | | |
|---|-------------------------------------|-----------|------|
| Nominal Voltage | 12 volts | | |
| Nominal Capacity | 77° F (25° C) | | |
| 20-hr. (1.55A) | 31.0 Ah | | |
| 10-hr. (2.88A) | 28.8 Ah | | |
| 5-hr. (5.26A) | 26.3 Ah | | |
| 1-hr. (18.6A) | 18.6 Ah | | |
| Approximate Weight | 22.5 lbs (10.2 kgs) | | |
| Internal Resistance (approx.) | 12mΩ | | |
| 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% |
| GEL Operational Temperature | | | |
| Charge | 32°F to 113°F (0°C to 45°C) | | |
| Discharge | 5°F to 131°F (-15°C to 55°C) | | |
| GEL Storage Temperature | 5°F to 104°F (-15°C to 40°C) | | |
| UPG Recomends | 32°F to 86°F (-0°C to 30°C) Storage | | |



Due to continuous improvements to our products, product may vary slightly from depiction.

Charge Method (Constant Voltage)

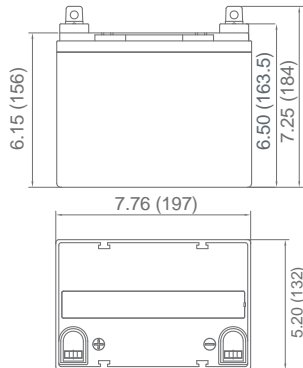
Cycle Use (Repeating Use)

| | |
|-----------------|------------------|
| Initial Current | 6.6 A or smaller |
| Control Voltage | 14.2 - 14.4 V |

Float Use

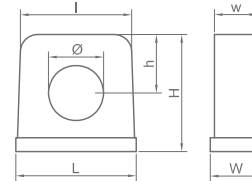
| | |
|-----------------|---------------|
| Control Voltage | 13.2 - 13.4 V |
|-----------------|---------------|

Physical Dimensions in (mm)



L: 7.76 in (197 mm)
W: 5.20 in (132 mm)
H: 6.15 in (156 mm)
TH: 7.25 in (184 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals



L Series (Lead Flag)

| Type | Dimension | L | I | W | w | H | h | Ø |
|------|-----------|------|-------|-----|-----|----|-----|---|
| L | | 17.5 | 16.16 | 7.5 | 6.3 | 17 | 8.5 | 8 |

Polarity

Left - Positive

Constant Power Discharge - Watts per cell @ 20-25°C

| End V per Cell | 5M | 10M | 15M | 20M | 25M | 30M | 35M | 40M | 45M | 60M | 90M | 2 hr | 3 hr | 4 hr |
|----------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.85 | 142 | 102 | 83.1 | 70.3 | 60.7 | 53.6 | 48.2 | 43.8 | 40.2 | 32.0 | 22.7 | 17.7 | 12.4 | 9.7 |
| 1.80 | 151 | 109 | 88.8 | 75.0 | 64.8 | 57.3 | 51.5 | 46.7 | 42.9 | 34.2 | 24.3 | 18.9 | 13.2 | 10.4 |
| 1.75 | 161 | 116 | 94.5 | 79.8 | 69.0 | 60.9 | 54.7 | 49.7 | 45.6 | 36.4 | 25.8 | 20.1 | 14.1 | 11.0 |
| 1.70 | 164 | 118 | 96.6 | 81.6 | 70.5 | 62.3 | 55.9 | 50.8 | 46.6 | 37.2 | 26.4 | 20.5 | 14.4 | 11.3 |
| 1.67 | 166 | 119 | 97.4 | 82.3 | 71.1 | 62.8 | 56.4 | 51.3 | 47.1 | 37.5 | 26.6 | 20.7 | 14.5 | 11.4 |
| 1.65 | 166 | 120 | 97.8 | 82.6 | 71.4 | 63.1 | 56.7 | 51.5 | 47.2 | 37.7 | 26.7 | 20.8 | 14.6 | 11.4 |
| 1.60 | 168 | 121 | 99 | 83.4 | 72.1 | 63.7 | 57.2 | 52.0 | 47.7 | 38.0 | 27.0 | 21.0 | 14.7 | 11.5 |

Constant Amps Discharge @ 20-25°C

| End V per Cell | 5M | 10M | 15M | 20M | 25M | 30M | 35M | 40M | 45M | 60M | 90M | 2 hr | 3 hr | 4 hr | 5 hr | 6 hr | 7 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|----------------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|-------|-------|
| 1.85 | 89.2 | 60.1 | 47.4 | 39.2 | 33.7 | 29.6 | 26.5 | 24.0 | 21.9 | 17.6 | 12.8 | 10.18 | 7.37 | 5.88 | 4.90 | 4.24 | 3.75 | 3.34 | 2.80 | 2.42 | 1.57 |
| 1.80 | 95.3 | 64.2 | 50.6 | 41.9 | 36.0 | 31.6 | 28.3 | 25.6 | 23.4 | 18.8 | 13.7 | 10.9 | 7.87 | 6.28 | 5.23 | 4.53 | 4.00 | 3.57 | 2.99 | 2.58 | 1.67 |
| 1.75 | 101.4 | 68.3 | 53.8 | 44.6 | 38.3 | 33.6 | 30.1 | 27.2 | 24.9 | 20.0 | 14.6 | 11.6 | 8.37 | 6.68 | 5.57 | 4.81 | 4.26 | 3.80 | 3.18 | 2.74 | 1.78 |
| 1.70 | 103.6 | 69.8 | 55.0 | 45.6 | 39.2 | 34.3 | 30.8 | 27.8 | 25.4 | 20.4 | 14.9 | 11.8 | 8.56 | 6.82 | 5.69 | 4.92 | 4.35 | 3.88 | 3.25 | 2.80 | 1.82 |
| 1.67 | 104.5 | 70.4 | 55.5 | 46.0 | 39.5 | 34.6 | 31.1 | 28.1 | 25.7 | 20.6 | 15.0 | 11.9 | 8.63 | 6.88 | - | - | - | - | - | - | - |
| 1.65 | 104.9 | 70.7 | 55.7 | 46.1 | 39.7 | 34.8 | 31.2 | 28.2 | 25.8 | 20.7 | 15.1 | 12.0 | 8.67 | 6.91 | - | - | - | - | - | - | - |
| 1.60 | 106 | 71.4 | 56.2 | 46.6 | 40.1 | 35.1 | 31.5 | 28.4 | 26.0 | 20.9 | 15.2 | 12.1 | 8.75 | 6.98 | - | - | - | - | - | - | - |

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All specifications subject to change without notice.

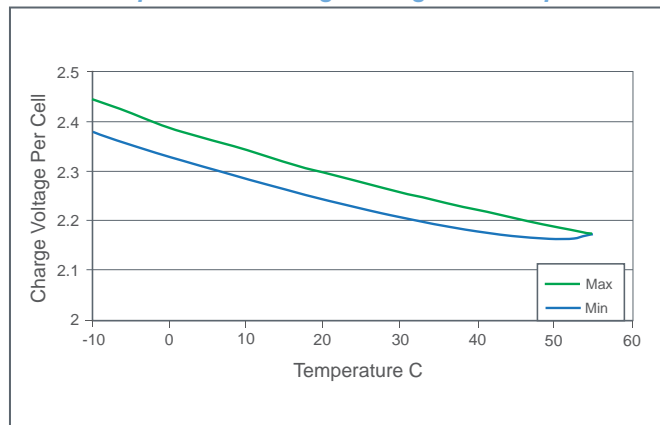
488 S. Royal Lane | Coppell, Texas 75019 | P 469.892.1122 | T 866.892.1122 | F 469.892.1123 | sales@upgi.com

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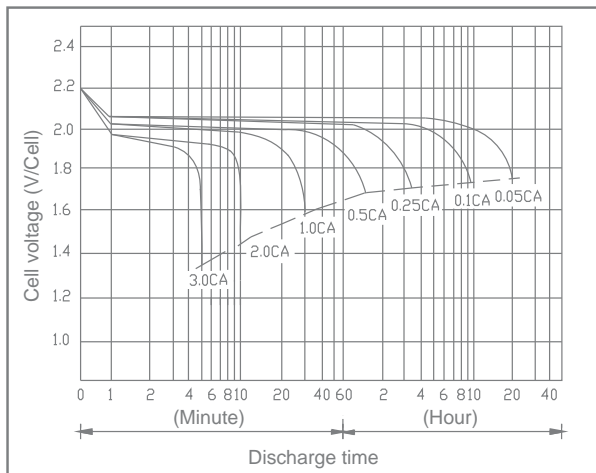
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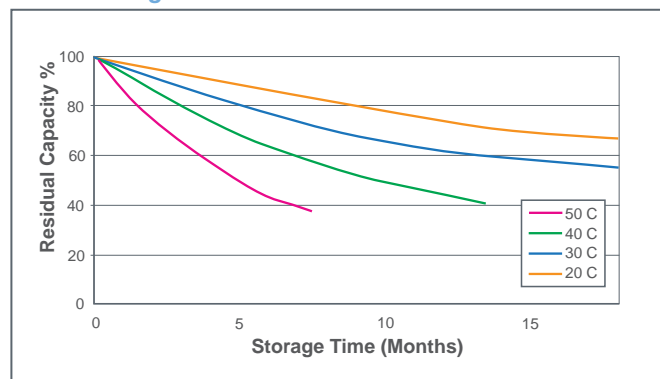
Relationship Between Charge Voltage and Temperature



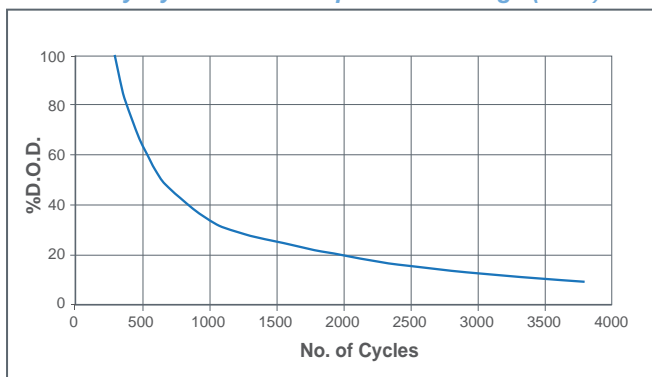
Discharge Characteristics



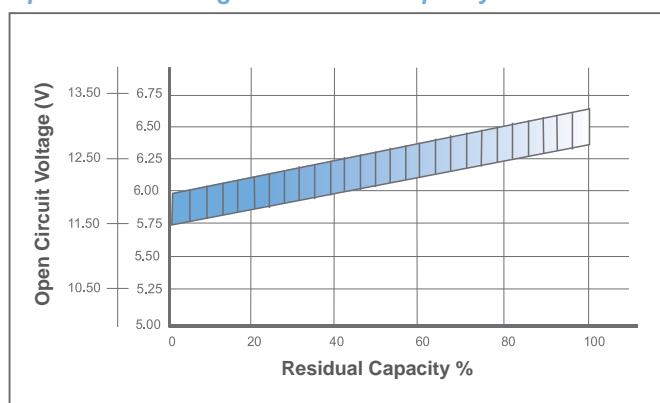
Self-Discharge Characteristics



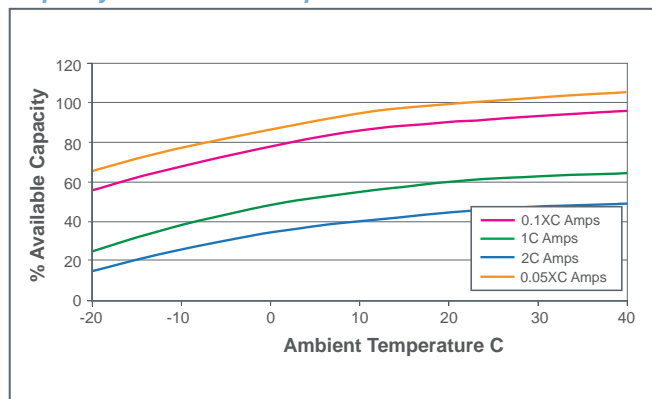
Gel Battery Cycle Life Vs. Depth of Discharge (DOD)



Open Circuit Voltage vs Residual Capacity



Capacity Vs Ambient Temperature



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 | 2.20-2.23 | | Current(A) | | | | |



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