

UCG150-12

12V 150AH

Deep Cycle

Ultracell®

Quality in Every Language

UCG150-12



Physical Specification

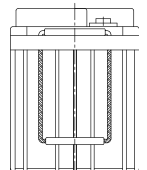
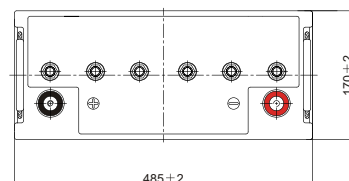
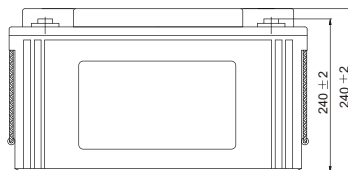
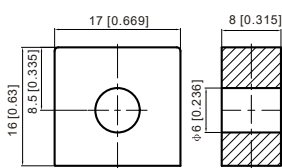
| | |
|------------------------------|------------|
| Part Number | UCG150-12 |
| Length | 485 ± 2 mm |
| Width | 170 ± 2 mm |
| Container Height | 240 ± 2 mm |
| Total Height (with terminal) | 240 ± 2 mm |
| Approx Weight | 43.5 kg |

Specifications

| | | |
|-------------------------------------|--|--|
| | Nominal Voltage | 12V |
| | Nominal Capacity (10HR) | 150AH |
| Terminal Type | Standard Terminal | F10 |
| | Optional Terminal | F11 |
| Container Material | Standard Option | ABS |
| | Flame Retardant Option (FR) | UL94-V0 |
| Rated Capacity | 20hr, 1.80V/cell, 25°C | 156.0 AH/8.04A |
| | 10hr, 1.80V/cell, 25°C | 150.0 AH/15.0A |
| | 5hr, 1.75V/cell, 25°C | 131.6 AH/26.3A |
| | 1hr, 1.60V/cell, 25°C | 96.9 AH/96.9A |
| Max Discharge Current | 1500A (5s) | |
| Internal Resistance | 2.5mΩ | |
| Discharge Characteristics | Operating Temp. Range | Discharge: -20 ~ 55°C |
| | | Charge: 0 ~ 40°C |
| | | Storage: -20 ~ 50°C |
| | Nominal Operating Temp. Range | 25 ± 3°C |
| | Cycle Use | Initial Charging Current less than 45.0A. Voltage 14.4V ~ 15.0V Temp. Coefficient -30mV/°C |
| | Standby Use | No limit on Initial Charging Current Voltage 13.5V ~ 13.8V Temp. Coefficient -20mV/°C |
| Capacity affect by Temperature | 40°C | 103% |
| | 25°C | 100% |
| | 0°C | 86% |
| Design Floating Life at 20°C | 15 Years | |
| Self Discharge | Ultracell batteries may be stored for up to 9 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. | |

Dimensions

F10 Terminal



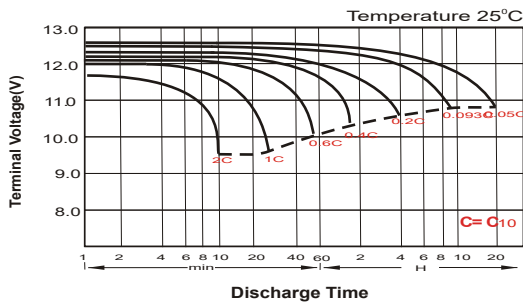
Constant Current Discharge (Amperes) at 20°C

| F.V/Time | 10min | 15mi | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 219.6 | 184.8 | 161.5 | 116.2 | 92.3 | 74.9 | 46.5 | 36.3 | 29.4 | 23.9 | 20.8 | 17.0 | 14.2 | 7.97 |
| 1.80V/cell | 280.6 | 223.3 | 190.9 | 137.1 | 107.3 | 83.9 | 50.8 | 39.0 | 31.4 | 25.6 | 22.3 | 18.0 | 15.0 | 8.04 |
| 1.75V/cell | 308.3 | 243.9 | 205.3 | 142.3 | 111.4 | 87.8 | 52.7 | 39.8 | 32.1 | 26.3 | 23.0 | 18.3 | 15.2 | 8.12 |
| 1.70V/cell | 336.1 | 260.4 | 215.8 | 148.2 | 115.8 | 90.5 | 54.8 | 40.9 | 32.9 | 27.0 | 23.4 | 18.6 | 15.3 | 8.27 |
| 1.65V/cell | 362.7 | 276.9 | 229.2 | 156.3 | 118.7 | 93.6 | 56.3 | 42.6 | 34.1 | 27.7 | 23.9 | 18.9 | 15.6 | 8.37 |
| 1.60V/cell | 393.8 | 296.1 | 244.2 | 165.0 | 123.8 | 96.9 | 58.2 | 43.9 | 35.1 | 28.6 | 24.5 | 19.1 | 15.8 | 8.42 |

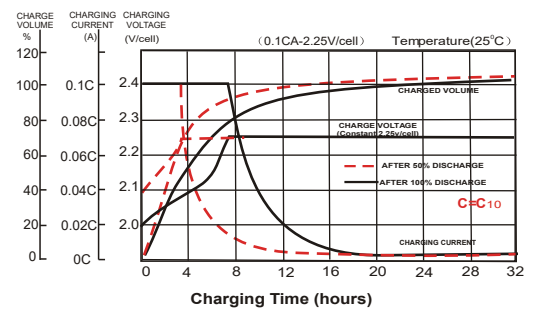
Constant Power Discharge (Watts) at 20°C

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 409.8 | 348.4 | 307.7 | 223.3 | 178.5 | 145.4 | 90.7 | 70.9 | 57.5 | 46.9 | 41.1 | 33.6 | 28.0 | 15.9 |
| 1.80V/cell | 516.6 | 414.7 | 358.2 | 260.3 | 205.9 | 161.9 | 98.3 | 75.9 | 61.1 | 50.2 | 44.0 | 35.6 | 29.7 | 16.1 |
| 1.75V/cell | 560.6 | 448.6 | 382.2 | 268.9 | 212.7 | 168.7 | 101.7 | 77.1 | 62.4 | 51.4 | 45.1 | 36.2 | 30.0 | 16.2 |
| 1.70V/cell | 602.5 | 475.4 | 399.4 | 278.8 | 220.6 | 173.6 | 105.5 | 79.0 | 63.9 | 52.6 | 46.0 | 36.7 | 30.2 | 16.5 |
| 1.65V/cell | 645.6 | 502.2 | 422.3 | 292.8 | 225.2 | 178.8 | 108.1 | 82.2 | 65.9 | 54.0 | 46.9 | 37.2 | 30.8 | 16.7 |
| 1.60V/cell | 689.0 | 530.7 | 445.2 | 306.0 | 232.6 | 183.7 | 111.1 | 84.3 | 67.7 | 55.5 | 47.8 | 37.5 | 31.1 | 16.8 |

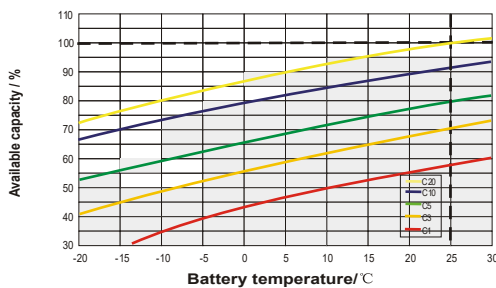
Discharge Characteristics



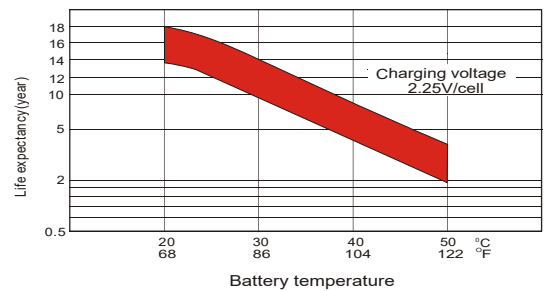
Charging Characteristics



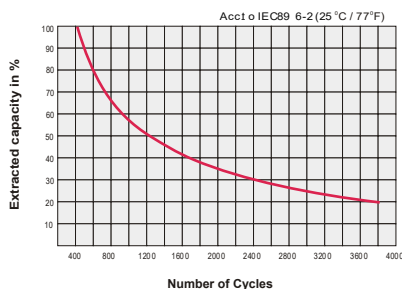
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

