

UCG250-12

12V 250AH

Deep Cycle

Ultracell®

Quality in Every Language

UCG250-12



Physical Specification

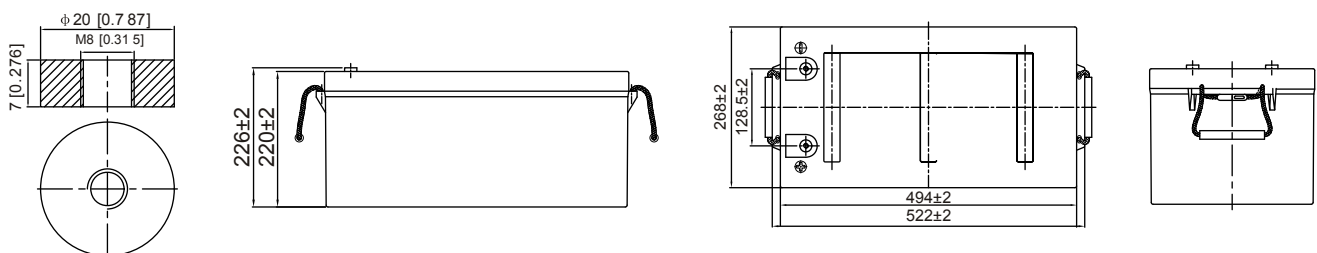
| | |
|------------------------------|------------|
| Part Number | UCG250-12 |
| Length | 522 ± 2 mm |
| Width | 268 ± 2 mm |
| Container Height | 220 ± 2 mm |
| Total Height (with terminal) | 226 ± 2 mm |
| Approx Weight | 70 kg |

Specifications

| | | |
|-------------------------------------|--|--|
| | Nominal Voltage | 12V |
| | Nominal Capacity (10HR) | 250AH |
| Terminal Type | Standard Terminal | F11 |
| Container Material | Standard Option | ABS |
| Rated Capacity | 20hr, 1.80V/cell, 25°C | 260 AH / 13.0A |
| | 10hr, 1.80V/cell, 25°C | 250.0 AH / 25.0A |
| | 5hr, 1.75V/cell, 25°C | 214.0 AH / 42.8A |
| | 1hr, 1.60V/cell, 25°C | 153.9 AH / 153.9A |
| Max Discharge Current | 2500A (5s) | |
| Internal Resistance | Approx 2.5m Ω | |
| Discharge Characteristics | Operating Temp. Range | Discharge: -15°C~50°C |
| | | Charge: 0°C~40°C |
| | | Storage: -15°C~40°C |
| | Nominal Operating Temp. Range | 25±3°C |
| | Cycle Use | Initial Charging Current less than 75.0A. Voltage 14.4V ~ 15V at 25°C Temp. Coefficient -30mV/°C |
| | Standby Use | No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C 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 6 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. | |

Dimensions

F11 Terminal



Revised: 02 Jul 2015

ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE

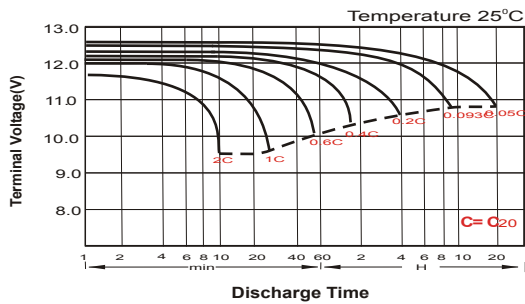
Constant Current Discharge (Amperes) at 25°C

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|
| 1.85V/cell | 316.7 | 273.9 | 236.1 | 187.2 | 142.4 | 117.5 | 74.5 | 57.4 | 46.1 | 38.8 | 34.0 | 27.8 | 23.51 | 12.55 |
| 1.80V/cell | 389.9 | 311.7 | 266.7 | 209.2 | 158.0 | 128.7 | 81.3 | 62.2 | 49.4 | 41.7 | 36.4 | 29.6 | 25.00 | 13.05 |
| 1.75V/cell | 452.7 | 352.6 | 297.3 | 228.1 | 169.0 | 137.0 | 85.3 | 64.3 | 50.9 | 42.8 | 37.4 | 30.0 | 25.15 | 13.20 |
| 1.70V/cell | \ | 378.5 | 313.7 | 239.5 | 176.6 | 142.2 | 87.6 | 66.1 | 52.4 | 43.9 | 38.2 | 30.6 | 25.45 | 13.40 |
| 1.65V/cell | \ | 402.4 | 334.7 | 251.0 | 184.3 | 148.2 | 90.5 | 68.1 | 53.9 | 44.9 | 38.9 | 31.1 | 25.92 | 13.53 |
| 1.60V/cell | \ | 427.3 | 351.1 | 262.4 | 192.9 | 153.9 | 93.6 | 69.5 | 54.9 | 45.9 | 39.6 | 31.6 | 26.19 | 13.67 |

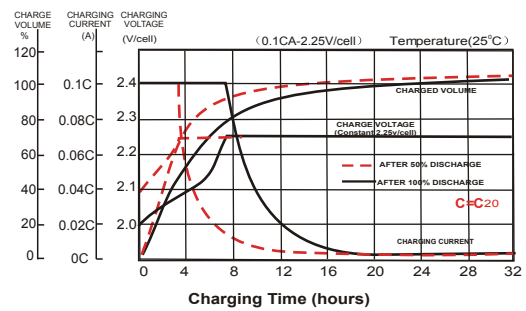
Constant Power Discharge (Watts) at 25°C

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| 1.85V/cell | 590.9 | 516.4 | 449.9 | 359.8 | 275.6 | 228.1 | 145.1 | 112.2 | 90.2 | 76.3 | 67.2 | 55.0 | 46.6 | 25.11 |
| 1.80V/cell | 717.8 | 579.0 | 500.5 | 397.1 | 303.2 | 248.4 | 157.5 | 120.9 | 96.3 | 81.6 | 71.6 | 58.4 | 49.3 | 26.07 |
| 1.75V/cell | 823.1 | 648.5 | 553.4 | 430.9 | 322.7 | 263.3 | 164.7 | 124.7 | 98.9 | 83.7 | 73.4 | 59.2 | 49.7 | 26.34 |
| 1.70V/cell | \ | 691.1 | 580.7 | 450.7 | 336.3 | 272.7 | 168.9 | 127.8 | 101.7 | 85.6 | 74.9 | 60.3 | 50.3 | 26.72 |
| 1.65V/cell | \ | 729.9 | 616.4 | 470.2 | 349.6 | 283.1 | 173.9 | 131.3 | 104.4 | 87.5 | 76.3 | 61.2 | 51.2 | 26.96 |
| 1.60V/cell | \ | 765.8 | 640.1 | 486.8 | 362.6 | 291.7 | 178.8 | 133.4 | 105.8 | 88.9 | 77.5 | 62.1 | 51.7 | 27.19 |

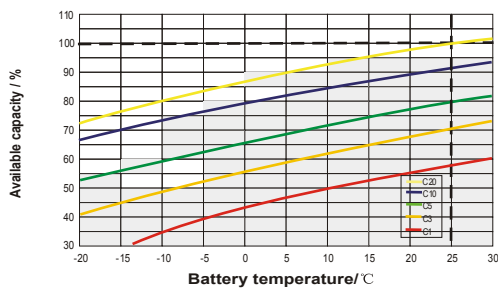
Discharge Characteristics



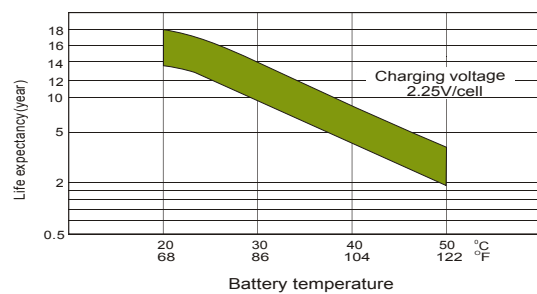
Charging Characteristics



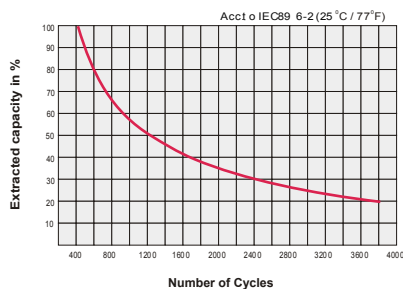
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

