

### UCG55-12



### Physical Specification

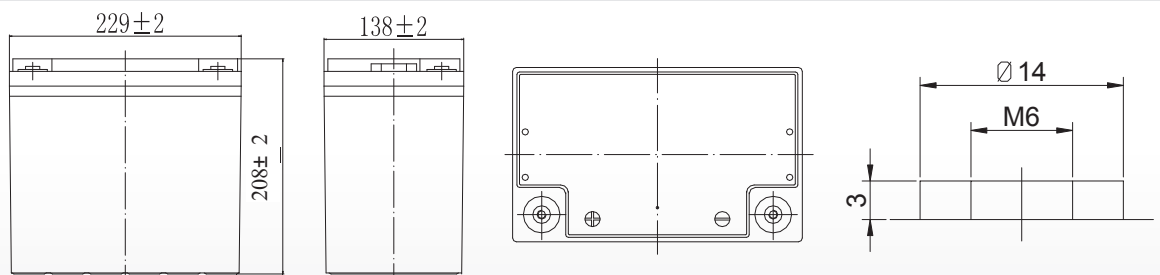
Part Number:	<b>UCG55-12</b>
Length:	<b>229 ± 2 mm (9.02 inches)</b>
Width:	<b>138 ± 2 mm (5.43 inches)</b>
Container Height:	<b>208 ± 2 mm (8.2 inches)</b>
Total Height (with terminal):	<b>208 ± 2 mm (8.2 inches)</b>
Approx Weight:	<b>Approx 17kg (37.4lbs)</b>

### Specifications

	Normal Voltage	12V
	Normal Capacity (20HR)	55.0AH
<b>Terminal Type</b>	Standard Terminal	F9
	Optional Terminal	-
<b>Container Material</b>	Standard Option	ABS
	Flame Retardant Option (FR)	ABS(UL94:VO)
<b>Rated Capacity</b>	55AH	(20hr, 1.80V/cell, 25°C / 77°F)
	42.9AH	(5hr, 1.75V/cell, 25°C / 77°F)
	32.0 AH	(1hr, 1.60V/cell, 25°C / 77°F)
<b>Max Discharge Current</b>	550A (5 secs)	
<b>Internal Resistance</b>	Fully Charged at 25°C	Approx. 7m Ω
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -20 ~ 55°C (5 ~ 131°F)
		Charge: -10 ~ 55°C (14 ~ 131°F)
		Storage: -20 ~ 55°C (-4 ~ 131°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than - Voltage 14.10V ~ 14.40V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.50V ~ 13.80V at 25°C (77°F) Temp. Coefficient -18mV/°C
Capacity affected by Temperature	40°C (104°F) 103%	
	25°C (77°F) 100%	
	0°C (32°F) 88%	
<b>Design Floating Life at 20°C</b>	12 Years	
<b>Self Discharge</b>	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

#### F9 Terminal



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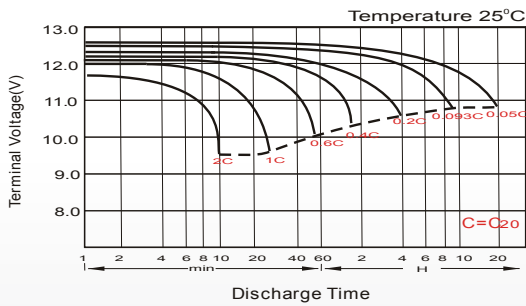
### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
1.60V/cell	74.3	51.3	32.0	18.7	13.2	10.4	8.69	7.43	5.78	5.15	2.81	---	---
1.65V/cell	72.6	50.2	31.5	18.6	13.1	10.3	8.64	7.37	5.72	5.14	2.81	----	---
1.70V/cell	69.9	48.7	30.7	18.4	13.0	10.2	8.58	7.32	5.72	5.13	2.80	1.23	---
1.75V/cell	67.7	47.5	30.1	18.2	12.9	10.2	8.53	7.26	5.67	5.09	2.75	1.22	0.51
1.80V/cell	63.8	45.8	29.2	17.7	12.5	9.85	8.25	7.04	5.49	5.06	2.75	1.22	0.51

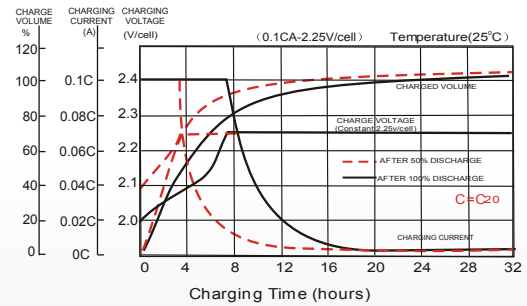
### Constant Power Discharge (Watts) at 25°C (77°F)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
1.60V/cell	829	584	369	218	156	123	103	88.0	68.8	61.6	33.9	---	---
1.65V/cell	809	573	363	216	155	122	103	87.5	68.8	61.6	33.8	----	---
1.70V/cell	779	555	354	215	154	121	102	86.9	68.2	61.4	33.5	14.7	---
1.75V/cell	752	542	347	211	153	120	101	86.4	67.7	61.1	33.2	14.6	6.11
1.80V/cell	713	522	336	206	148	117	98.5	83.6	65.5	60.5	33.3	14.6	6.05

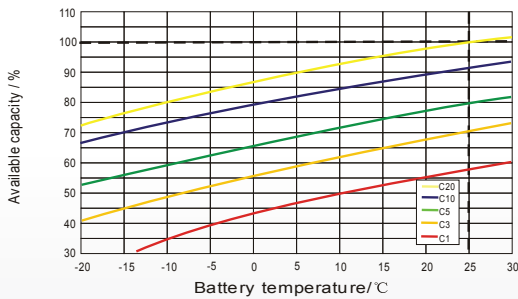
### Discharge Characteristics



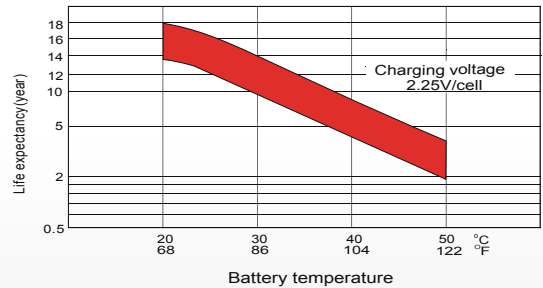
### Float Charging Characteristics



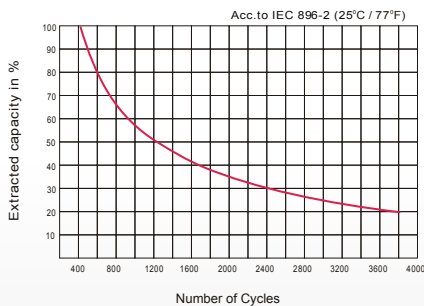
### Temperature Effects in Relation to Battery Capacity



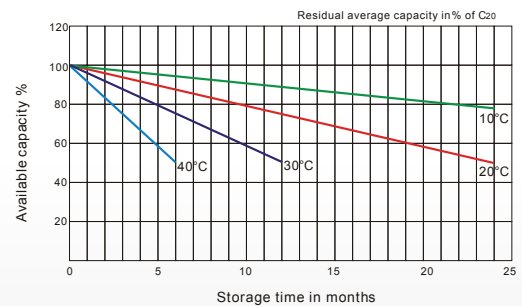
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS. Storage Time



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