

# UCG12-12

12V 12AH  
Deep Cycle Gel



# Ultracell®

Quality in Every Lead-Acid

## UCG12-12



## Physical Specification

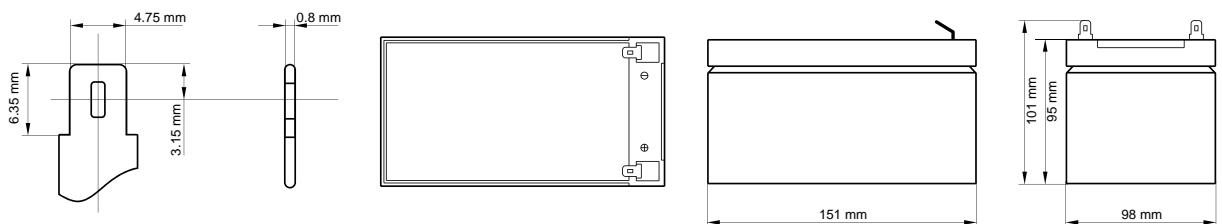
Part Number	UCG12-12
Length	151.5 ± 2 mm
Width	99.5 ± 2 mm
Container Height	97 ± 2 mm
Total Height (with terminal)	100 ± 2 mm
Approx Weight	4.2 kg

## Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	13.0AH
Terminal Type	Standard Terminal	F1 (Optional Terminal F2)
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	UL94:VO
Rated Capacity	20hr, 1.80V/cell, 25°C	13.9 AH/0.70A
	10hr, 1.80V/cell, 25°C	13.0 AH/1.30A
	5hr, 1.75V/cell, 25°C	11.4 AH/2.28A
	1hr, 1.60V/cell, 25°C	8.40 AH/8.40A
Max Discharge Current	195A (5s)	
Internal Resistance	Approx 14.0m Ω	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C
		Charge: 0 ~ 40°C
		Storage: -15 ~ 40°C
	Nominal Operating Temp. Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 3.6A Voltage 14.4V ~ 14.8V Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.6V ~ 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	5 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

### F1 Terminal



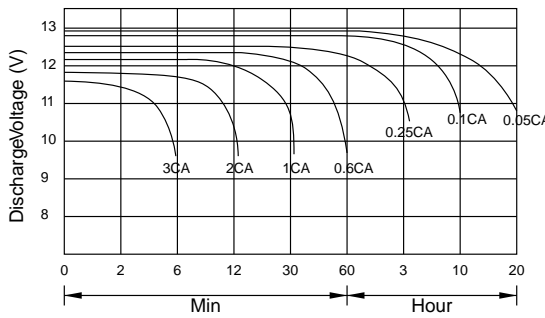
## Constant Current Discharge (Amperes) at 20°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	190	160	140	10.1	8.00	6.49	4.03	3.14	2.55	2.07	1.81	1.47	1.23	0.690
1.80V/cell	243	194	165	11.9	9.30	7.27	4.40	3.38	2.72	2.22	1.94	1.56	1.30	0.697
1.75V/cell	267	211	178	123	9.65	7.61	4.56	3.45	2.78	2.28	1.99	1.59	1.31	0.703
1.70V/cell	291	226	187	128	10.0	7.85	4.75	3.54	2.85	2.34	2.03	1.61	1.33	0.716
1.65V/cell	314	240	199	135	10.3	8.11	4.88	3.69	2.95	2.40	2.07	1.64	1.35	0.725
1.60V/cell	341	257	212	143	10.7	8.40	5.04	3.81	3.04	2.48	2.12	1.65	1.37	0.729

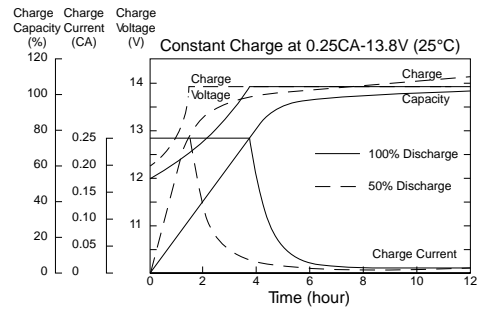
## Constant Power Discharge (Watts) at 20°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	355	302	267	194	155	126	7.86	6.14	4.99	4.06	3.57	2.91	2.43	1.381
1.80V/cell	448	359	310	226	178	140	8.52	6.58	5.30	4.35	3.81	3.09	2.57	1.392
1.75V/cell	486	389	331	233	184	146	8.81	6.68	5.41	4.46	3.91	3.14	2.60	1.404
1.70V/cell	522	412	346	242	191	150	9.14	6.85	5.54	4.56	3.98	3.18	2.62	1.429
1.65V/cell	560	435	366	254	195	155	9.37	7.12	5.72	4.68	4.07	3.23	2.67	1.445
1.60V/cell	597	460	386	265	202	159	9.63	7.30	5.87	4.81	4.15	3.25	2.70	1.451

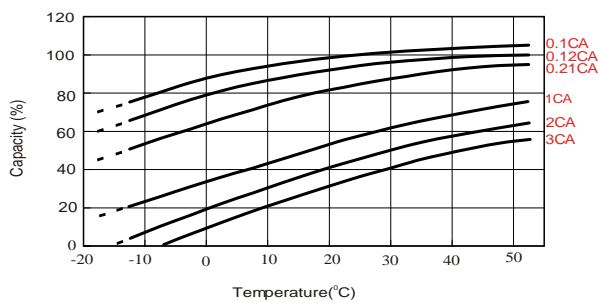
## Discharge Characteristics



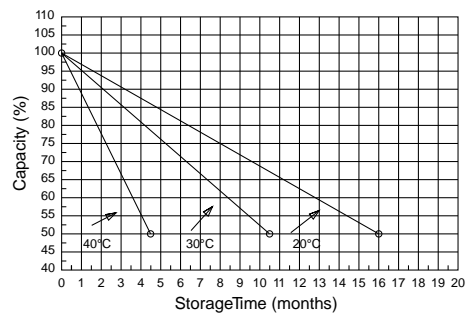
## Float Charging Characteristics



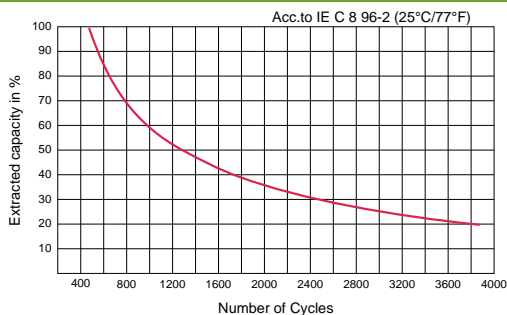
## Temperature Effects in Relation to Battery Capacity



## Life Characteristics of Cycle Use



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity VS. Storage Time

