

# UCG35-12

12V 35AH  
Deep Cycle Gel

# Ultracell®

Quality in Every Language

## UCG35-12

## Physical Specification

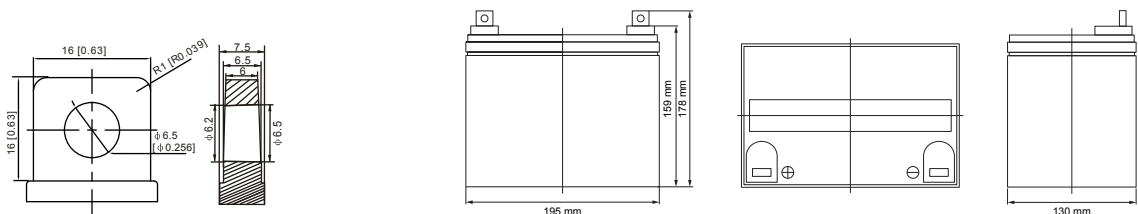
Part Number	<b>UCG35-12</b>
Length	<b>195 ± 2 mm</b>
Width	<b>130 ± 2 mm</b>
Container Height	<b>159 ± 2 mm</b>
Total Height (with terminal)	<b>178 ± 2 mm</b>
Approx Weight	<b>11.2 kg</b>

## Specifications

	Nominal Voltage	12V	
	Nominal Capacity (20HR)	35AH	
Terminal Type	Standard Terminal	F5	
	Optional Terminal	F6	
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	-	
Rated Capacity	20hr, 1.80V/cell, 25°C	36.4 AH/1.65A	
	10hr, 1.80V/cell, 25°C	35.0 AH/3.14A	
	5hr, 1.75V/cell, 25°C	28.1 AH/5.61A	
	1hr, 1.60V/cell, 25°C	19.8AH/19.8A	
Max Discharge Current	-		
Internal Resistance	Approx 0.01m Ω		
Discharge Characteristics	Operating Temp. Range	Discharge: -°C	
		Charge: -°C	
		Storage: -°C	
	Nominal Operating Temp. Range	-	
	Cycle Use	14.4V ~ 15.0V Temp. Coefficient -mV/°C	
	Standby Use	13.6V ~ 13.8V Temp. Coefficient -mV/°C	
	Capacity affect by Temperature	40°C	103%
	25°C	100%	
	0°C	86%	
Design Floating Life at 20°C	12 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

### F5 Terminal



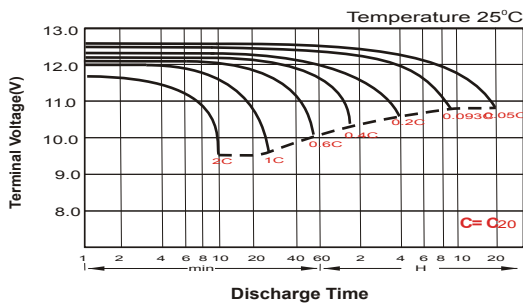
## Constant Current Discharge (Amperes) at 20°C

F.V / Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 V	130.02	79.86	60.52	36.89	19.8	10.3	6.07	3.37	1.84
1.67 V	120.78	76.56	58.67	35.38	19.6	8.71	5.94	3.30	1.78
1.70 V	111.54	73.26	56.83	32.08	18.9	8.29	5.81	3.23	1.78
1.75 V	110.22	71.28	54.98	30.56	18.5	8.05	5.64	3.18	1.67
1.80 V	97.68	67.98	49.62	28.31	17.2	7.85	5.54	3.15	1.65
1.85 V	86.46	64.55	44.75	25.94	16.7	7.72	5.54	2.45	1.65

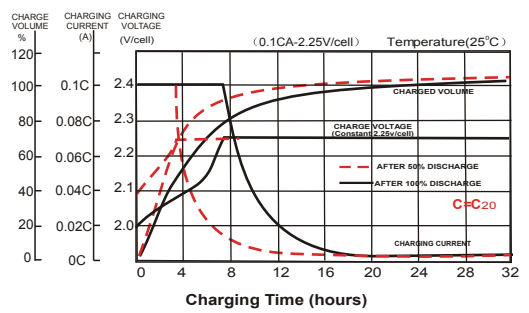
## Constant Power Discharge (Watts) at 20°C

F.V / Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 V	264	171.60	110	76.6	42.9	16.7	11.4	6.40	3.37
1.67 V	255.42	167.64	130.02	75.2	42.4	16.6	11.3	6.40	3.37
1.70 V	244.86	165	126.72	73.9	42	16.5	11.3	6.34	3.30
1.75 V	23.34	158.40	122.76	71.9	41.3	16.4	11.2	6.34	3.30
1.80 V	199.98	146.52	117.48	70	40	16.1	11.1	6.20	3.23
1.85 V	188.76	135.96	112.20	66.7	39.1	15.8	11.0	6.20	3.23

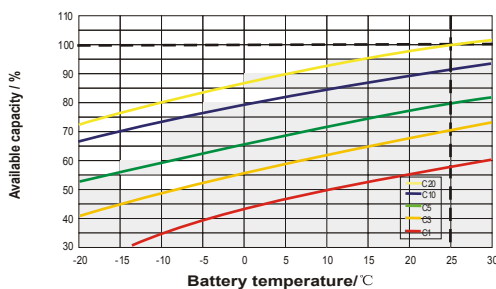
### Discharge Characteristics



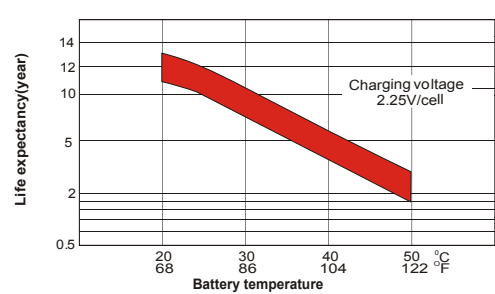
### Charging Characteristics



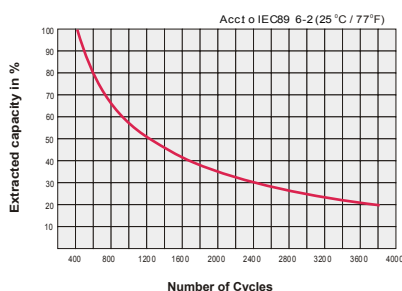
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS. Storage Time

