

UCG35-12

12V 35AH
Deep Cycle

Ultracell®

Quality in Every Language

UCG35-12



Physical Specification

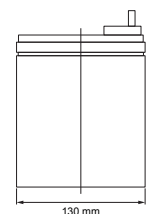
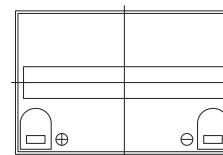
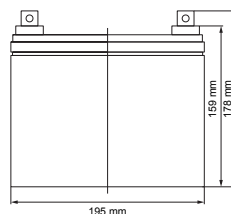
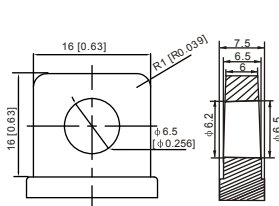
Part Number	UCG35-12
Length	195 ± 2 mm
Width	130 ± 2 mm
Container Height	159 ± 2 mm
Total Height (with terminal)	178 ± 2 mm
Approx Weight	11.2 kg

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



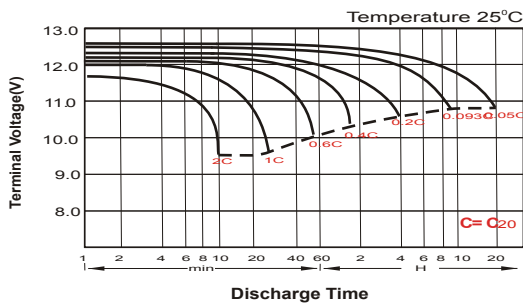
Constant Current Discharge (Amperes) at 20°C

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

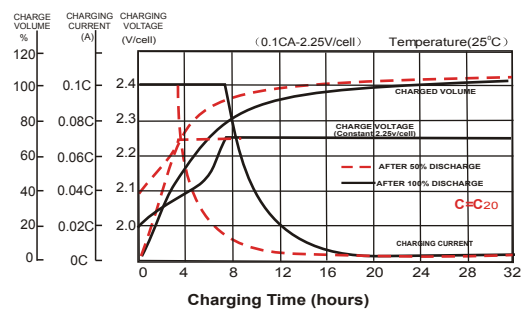
Constant Power Discharge (Watts) at 20°C

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

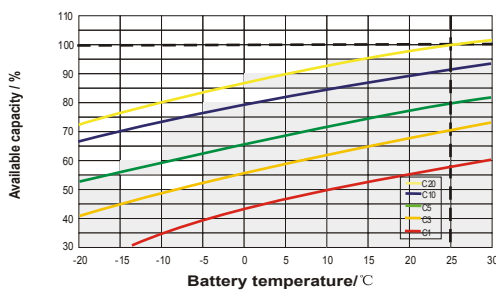
Discharge Characteristics



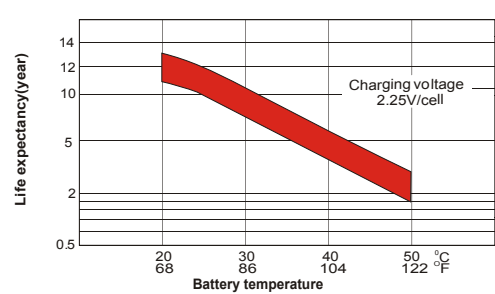
Charging Characteristics



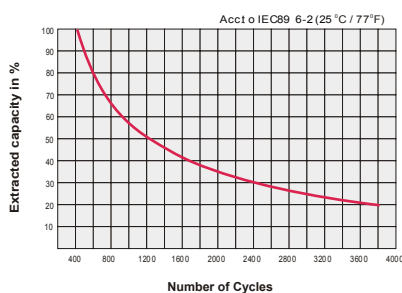
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

