

UCG172-12

12V 172AH

Deep Cycle

Ultracell®

Quality in Every Language

UCG172-12



Physical Specification

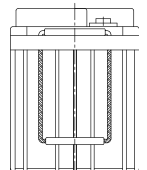
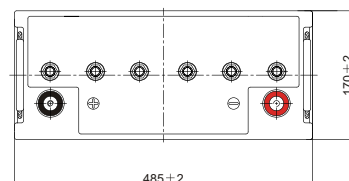
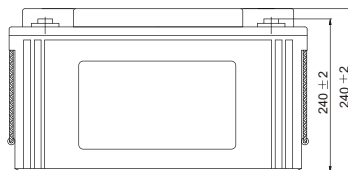
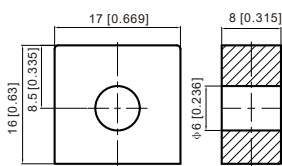
Part Number	UCG172-12
Length	485 ± 2 mm
Width	170 ± 2 mm
Container Height	240 ± 2 mm
Total Height (with terminal)	240 ± 2 mm
Approx Weight	43.5 kg

Specifications

	Nominal Voltage	12V	
	Nominal Capacity (100HR)	172AH	
Terminal Type	Standard Terminal	F10	
	Optional Terminal	F11	
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	UL94-V0	
Rated Capacity	20hr, 1.80V/cell, 25°C	156.0 AH/8.04A	
	10hr, 1.80V/cell, 25°C	150.0 AH/15.0A	
	5hr, 1.75V/cell, 25°C	131.6 AH/26.3A	
	1hr, 1.60V/cell, 25°C	96.9 AH/96.9A	
Max Discharge Current	1500A (5s)		
Internal Resistance	2.5mΩ		
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 55°C	
		Charge: 0 ~ 40°C	
		Storage: -20 ~ 50°C	
	Nominal Operating Temp. Range	25 ± 3°C	
	Cycle Use	Initial Charging Current less than 45.0A. Voltage 14.4V ~ 15.0V Temp. Coefficient -30mV/°C	
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 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	15 Years		
Self Discharge	Ultracell batteries may be stored for up to 9 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.		

Dimensions

F10 Terminal



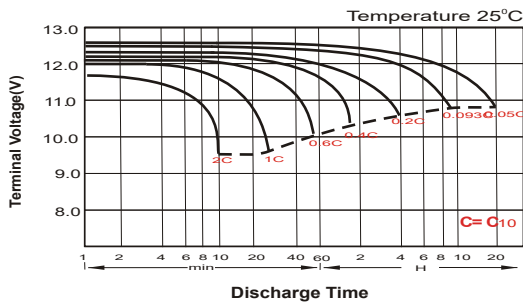
Constant Current Discharge (Amperes) at 20°C

F.V/Time	10min	15mi	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	219.6	184.8	161.5	116.2	92.3	74.9	46.5	36.3	29.4	23.9	20.8	17.0	14.2	7.97
1.80V/cell	280.6	223.3	190.9	137.1	107.3	83.9	50.8	39.0	31.4	25.6	22.3	18.0	15.0	8.04
1.75V/cell	308.3	243.9	205.3	142.3	111.4	87.8	52.7	39.8	32.1	26.3	23.0	18.3	15.2	8.12
1.70V/cell	336.1	260.4	215.8	148.2	115.8	90.5	54.8	40.9	32.9	27.0	23.4	18.6	15.3	8.27
1.65V/cell	362.7	276.9	229.2	156.3	118.7	93.6	56.3	42.6	34.1	27.7	23.9	18.9	15.6	8.37
1.60V/cell	393.8	296.1	244.2	165.0	123.8	96.9	58.2	43.9	35.1	28.6	24.5	19.1	15.8	8.42

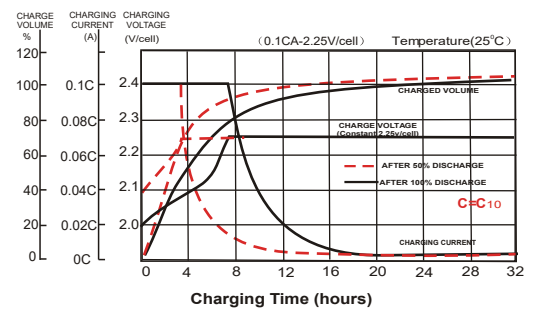
Constant Power Discharge (Watts) at 20°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	409.8	348.4	307.7	223.3	178.5	145.4	90.7	70.9	57.5	46.9	41.1	33.6	28.0	15.9
1.80V/cell	516.6	414.7	358.2	260.3	205.9	161.9	98.3	75.9	61.1	50.2	44.0	35.6	29.7	16.1
1.75V/cell	560.6	448.6	382.2	268.9	212.7	168.7	101.7	77.1	62.4	51.4	45.1	36.2	30.0	16.2
1.70V/cell	602.5	475.4	399.4	278.8	220.6	173.6	105.5	79.0	63.9	52.6	46.0	36.7	30.2	16.5
1.65V/cell	645.6	502.2	422.3	292.8	225.2	178.8	108.1	82.2	65.9	54.0	46.9	37.2	30.8	16.7
1.60V/cell	689.0	530.7	445.2	306.0	232.6	183.7	111.1	84.3	67.7	55.5	47.8	37.5	31.1	16.8

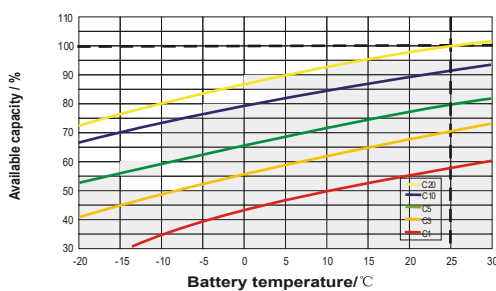
Discharge Characteristics



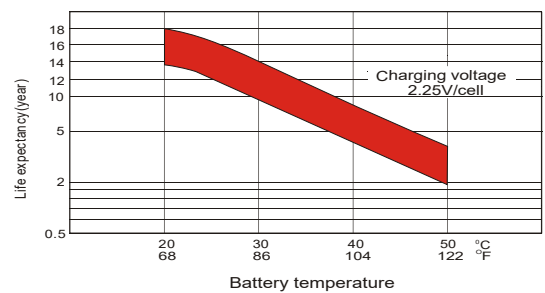
Charging Characteristics



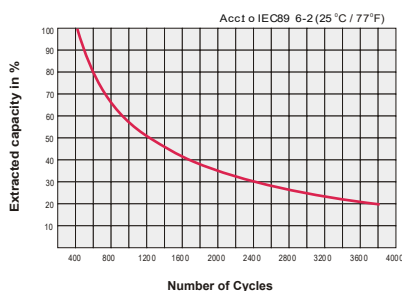
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

