

UCG120-12

12V 120AH

Deep Cycle

Ultracell®

Quality in Every Language

UCG120-12



Physical Specification

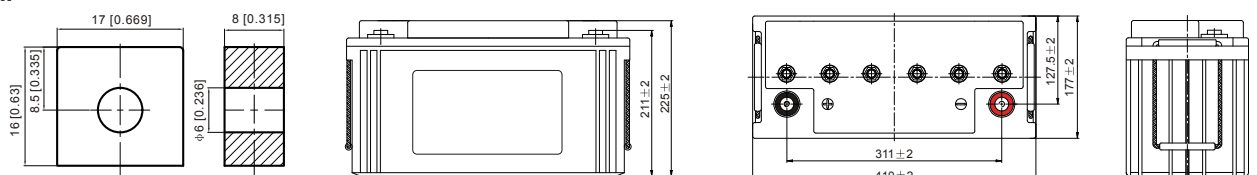
Part Number	UCG120-12
Length	409 ± 2 mm
Width	176 ± 2 mm
Container Height	225 ± 2 mm
Total Height (with terminal)	225 ± 2 mm
Approx Weight	37 kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity 20HR)	120AH
Terminal Type	Standard Terminal	F10
	Optional Terminal	F11
Container Material	Standard Option	ABS
	20hr, 1.80V/cell, 25°C	124.8Ah
	10hr, 1.80V/cell, 25°C	120Ah
	5hr, 1.75V/cell, 25°C	99Ah
	1hr, 1.60V/cell, 25°C	72Ah
Max Discharge Current	960A(5s)	
Internal Resistance	4.4mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C
		Charge: -10 ~ 50°C
		Storage: -20 ~ 50°C
	Nominal Operating Temp. Range	25 ± 3°C
	Cycle Use	13.80V ~ 14.10V Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V Temp. Coefficient -18mV/°C
Capacity affect by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Design Floating Life at 20°C	12~15 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

F10 Terminal



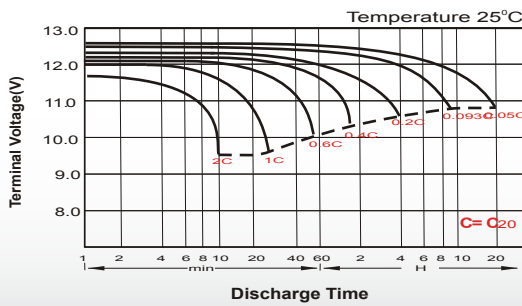
Constant Current Discharge (Amperes) at 20°C

F.V/ Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	1100	863	659	551	350	26.7	22.1	19.1	16.4	14.6	13.1	120	11.3	6.24
1.80V/cell	1260	965	726	608	378	28.6	23.4	20.0	17.3	15.2	13.8	126	11.9	6.50
1.75V/cell	1416	1061	785	651	40.1	30.2	24.5	20.8	17.9	15.8	14.2	130	12.1	6.63
1.70V/cell	1525	1136	834	689	425	31.4	25.3	21.5	18.5	16.3	14.6	133	12.4	6.71
1.67V/cell	1587	1180	863	715	436	32.4	25.9	21.9	18.8	16.5	14.9	135	12.5	6.78
1.60V/cell	1720	1264	927	759	454	33.7	26.9	22.6	19.3	16.9	15.1	138	12.8	6.88

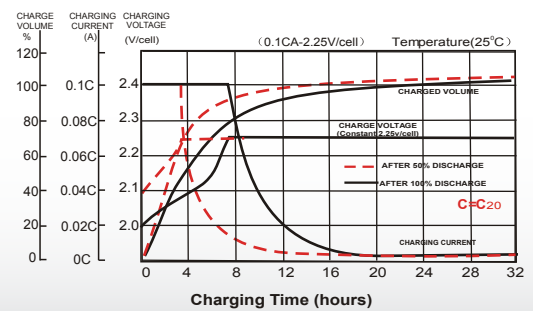
Constant Power Discharge (Watts) at 20°C

F.V/ Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	2105	1663	1277	1073	683	522	434	376	326	289	26.1	239	226	125
1.80V/cell	2380	1841	1398	1178	736	55.7	45.8	39.4	34.1	30.2	27.3	25.1	236	130
1.75V/cell	2645	2007	150.1	1255	77.8	58.8	47.9	40.8	35.2	31.2	28.1	25.8	240	132
1.70V/cell	2818	2130	158.2	1320	82.0	61.0	49.3	41.9	36.3	32.1	28.9	26.5	246	134
1.67V/cell	2900	2190	162.7	1362	83.7	62.7	50.4	42.7	36.8	32.5	29.3	26.7	248	135
1.60V/cell	3108	2322	173.4	1439	86.7	64.9	52.1	43.9	37.6	33.1	29.7	27.3	25.3	136

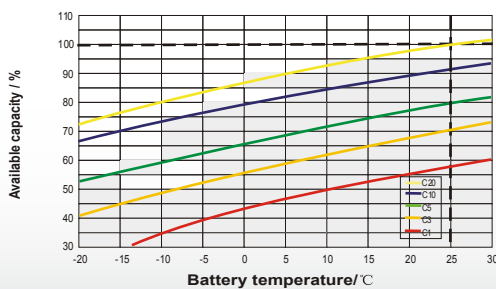
Discharge Characteristics



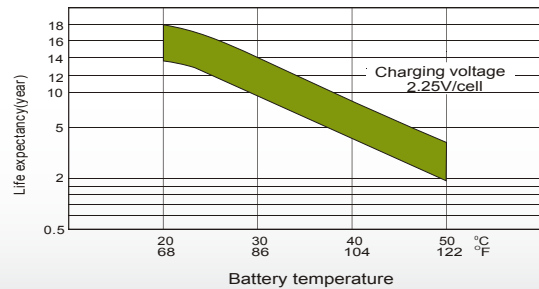
Charging Characteristics



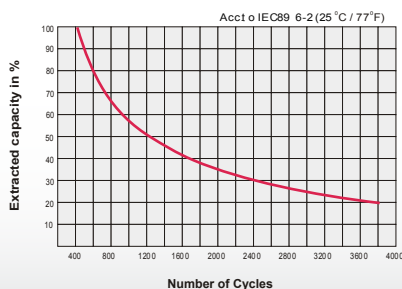
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

