UCG 120-12
12V 120AH
Deep Cycle Gel

Ultracell®
'Quality in Every Language'

UCG12012

Physical Specification

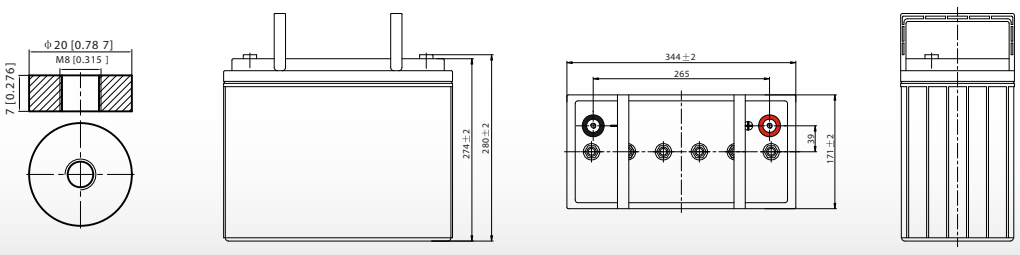
Part Number:	**UCG120-12**
Length:	**240 ± 2 mm (13.54 inches)**
Width:	**177 ± 2 mm (6.73 inches)**
Container Height:	**225 ± 2 mm (10.79 inches)**
Total Height (with terminal):	**225 ± 2 mm (11.05 inches)**
Approx Weight:	**Approx 37.60 kg**

Specifications

	Nominal Voltage	12V
	Nominal Capacity (20HR)	120AH
Terminal Type	Standard Terminal	F11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	120.0 AH/6.5A	(20hr,1.80V/cell, 25°C / 77°F)
	121.0 AH/12.1A	(10hr,1.80V/cell, 25°C / 77°F)
	104.0 A H/20.8A	(5hr,1.75V/cell, 25°C / 77°F)
	90.6 AH/30.2A	(3hr,1.75V/cell, 25°C / 77°F)
	71.5 AH/71.5A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	1170A (5s)	
Internal Resistance	Approx 4.8mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 55°C (-4 ~ 131°F)
		Charge: 0 ~ 40°C (32 ~ 104°F)
		Storage: -20 ~ 50°C (-4 ~ 122°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Inital Charging Current less than 31.25A.Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	15 Years	
Self Discharge	Ultracell batteries may be stored for up to 6 months at 25°C(°77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

F11 Terminal



Ultracell (UK) Ltd | Vesty Business Park | Vesty Road | Liverpool | L30 1NY | United Kingdom
Tel: +44 (0) 151 523 2777 Fax: +44 (0) 151 523 0855 Email: info@ultracell.co.uk
www.ultracell.co.uk

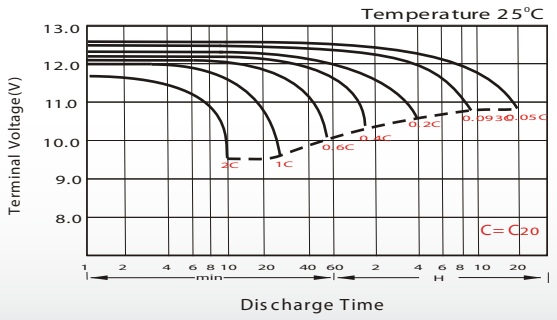
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	120.0	86.3	65.9	55.1	35.0	26.7	22.1	19.1	16.4	14.6	13.1	12.0	11.3	6.24
1.80V/cell	126.0	96.5	72.6	60.8	37.8	28.6	23.4	20.0	17.3	15.2	13.8	12.6	11.9	6.50
1.75V/cell	141.6	106.1	78.5	65.1	40.1	30.2	24.5	20.8	17.9	15.8	14.2	13.0	12.1	6.63
1.70V/cell	152.5	113.6	83.4	68.9	42.5	31.4	25.3	21.5	18.5	16.3	14.6	13.3	12.4	6.71
1.67V/cell	158.7	118.0	86.3	71.5	43.6	32.4	25.9	21.9	18.8	16.5	14.9	13.5	12.5	6.78
1.60V/cell	172.0	126.4	92.7	75.9	45.4	33.7	26.9	22.6	19.3	16.9	15.1	13.8	12.8	6.88

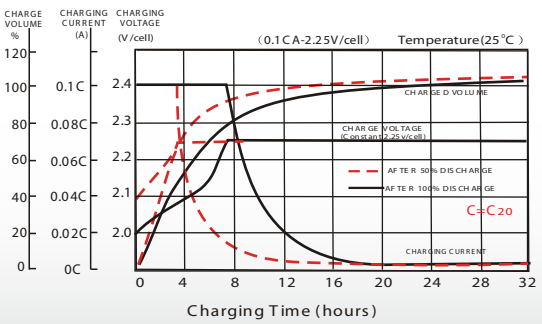
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	210.5	166.3	127.7	107.3	68.3	52.2	43.4	37.6	32.6	28.9	26.1	23.9	22.6	12.5
1.80V/cell	238.0	184.1	139.8	117.8	73.6	55.7	45.8	39.4	34.1	30.2	27.3	25.1	23.6	13.0
1.75V/cell	264.5	200.7	150.1	125.5	77.8	58.8	47.9	40.8	35.2	31.2	28.1	25.8	24.0	13.2
1.70V/cell	281.8	213.0	158.2	132.0	82.0	61.0	49.3	41.9	36.3	32.1	28.9	26.5	24.6	13.4
1.67V/cell	290.0	219.0	162.7	136.2	83.7	62.7	50.4	42.7	36.8	32.5	29.3	26.7	24.8	13.5
1.60V/cell	310.8	232.2	173.4	143.9	86.7	64.9	52.1	43.9	37.6	33.1	29.7	27.3	25.3	13.6

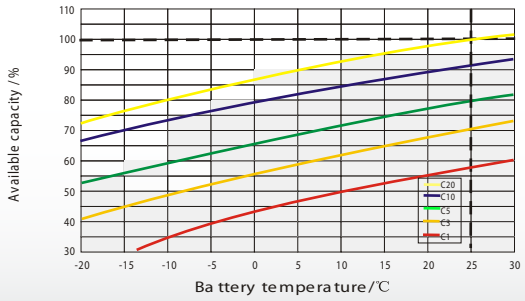
Discharge Characteristics



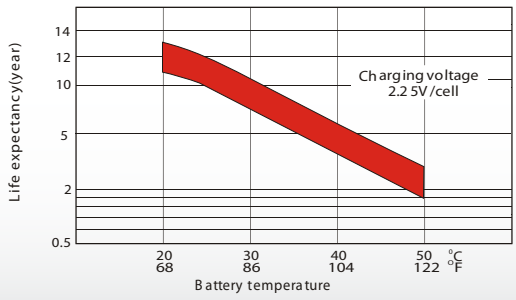
Float Charging Characteristics



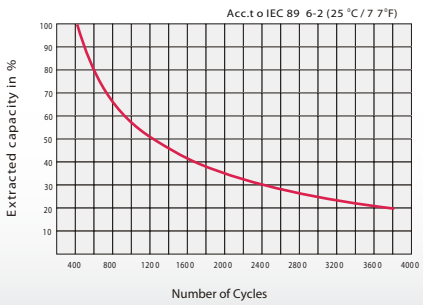
Temperature Effects in Relation to Battery Capacity



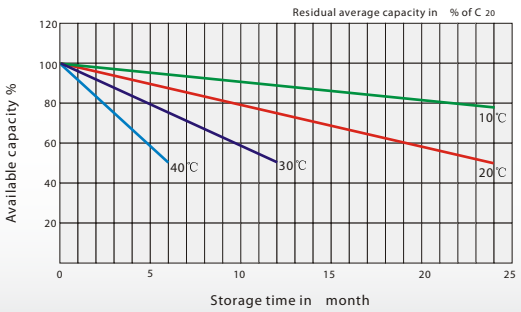
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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