

UXL120-12



Physical Specification

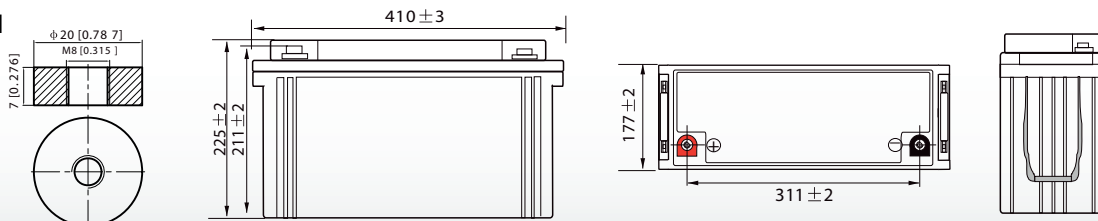
Part Number:	UXL120-12
Length:	410 ± 3 mm (16.14 inches)
Width:	177 ± 3 mm (6.97 inches)
Container Height:	225 ± 3 mm (8.86 inches)
Total Height (with terminal):	225 ± 3 mm (8.86 inches)
Approx Weight:	Approx 37.20 Kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	120AH
Terminal Type	Standard Terminal	F 11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	128.4 AH/6.42A	(20hr,1.80V/cell, 25°C / 77°F)
	120.0 AH/12.0A	(10hr,1.80V/cell, 25°C / 77°F)
	104.4 AH/20.88A	(5hr,1.75V/cell, 25°C / 77°F)
	93.6 AH/31.2A	(3hr,1.75V/cell, 25°C / 77°F)
	74.4 AH/74.4A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	1300 A (5s)	
Internal Resistance	Approx 4.0mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (32 ~ 104°F)
		Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 36.0A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coe fficient -30mV/°C
Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coe fficient -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

F 11 Terminal



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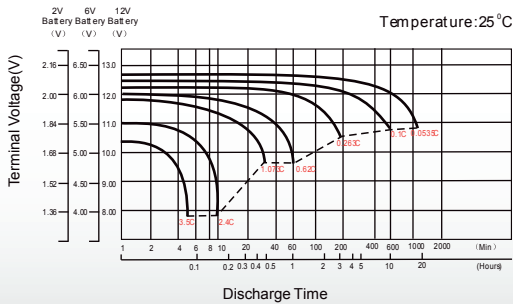
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	140.4	118.1	104.8	86.9	67.0	57.4	37.1	27.9	22.9	19.2	16.9	13.5	11.6	6.20
1.80V/cell	160.7	132.6	115.8	94.4	72.3	60.5	39.9	30.0	24.3	20.4	17.9	14.2	12.0	6.42
1.75V/cell	182.5	149.4	128.0	102.5	78.9	66.0	41.5	31.2	25.2	20.9	18.4	14.7	12.3	6.58
1.70V/cell	206.1	165.8	141.3	112.0	85.0	69.8	43.7	32.8	26.3	22.1	19.3	15.3	12.8	6.75
1.65V/cell	221.3	177.5	150.3	118.1	89.9	72.2	45.3	34.2	27.3	22.8	20.0	15.9	13.2	6.96
1.60V/cell	243.5	194.4	163.3	126.1	93.4	74.4	46.5	35.0	27.9	23.3	20.4	16.1	13.4	7.07

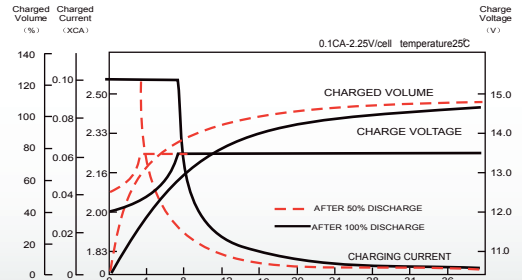
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	262.2	222.7	199.6	167.3	130.2	111.8	72.9	55.0	45.2	38.1	33.5	27.0	23.2	12.4
1.80V/cell	296.5	246.7	217.4	179.0	139.4	117.4	77.8	58.7	47.8	40.2	35.3	28.3	24.0	12.8
1.75V/cell	331.4	274.7	238.0	192.9	150.6	127.4	80.6	60.9	49.3	41.0	36.3	29.2	24.6	13.1
1.70V/cell	365.9	300.6	260.8	209.5	161.6	134.4	84.8	63.9	51.4	43.3	38.0	30.4	25.5	13.5
1.65V/cell	389.4	319.4	275.4	219.2	169.5	138.0	87.4	66.2	53.2	44.5	39.2	31.3	26.2	13.9
1.60V/cell	418.7	344.1	295.9	232.3	175.2	141.4	89.2	67.6	54.2	45.5	39.9	31.8	26.7	14.1

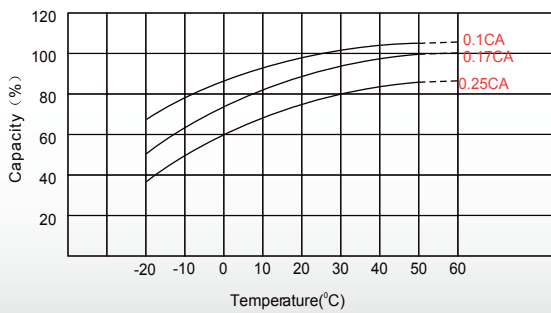
Discharge Characteristics



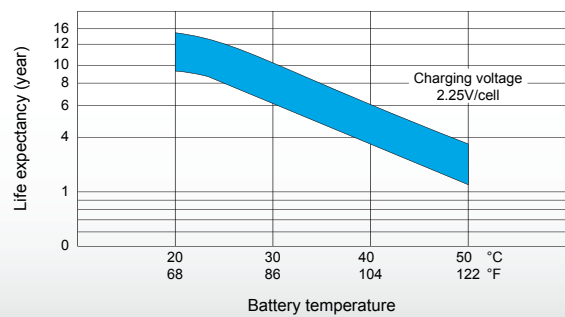
Float Charging Characteristics



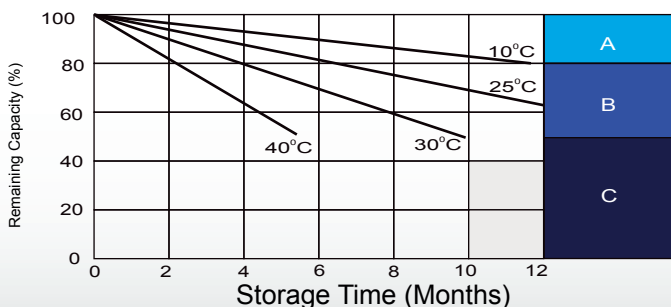
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



A

No supplementary required
(Carryout supplementary charge before use if 100% capacity is required.)

B

Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

C

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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