

UCG 250-12

12V 250AH

Deep Cycle

Ultracell®

'Quality in Every Language'

UCG250-12



Physical Specification

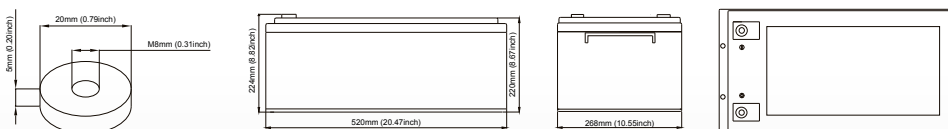
Part Number:	UCG250-12
Length:	520 ± 2 mm (20.47 inches)
Width:	268 ± 2 mm (10.55 inches)
Container Height:	220 ± 2 mm (8.66 inches)
Total Height (with terminal):	224 ± 2 mm (8.82 inches)
Approx Weight:	Approx 73kg (160.9 lbs)

Specifications

	Normal Voltage	12V
	Normal Capacity (20HR)	250.0AH
Terminal Type	Standard Terminal	F11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS(UL94:VO)
Rated Capacity	260.0 AH/13.0A	(20hr, 1.80V/cell, 25°C / 77°F)
	250.0 AH/25.0A	(10hr, 1.80V/cell, 25°C / 77°F)
	215 AH/43.0A	(5hr, 1.75V/cell, 25°C / 77°F)
	154 AH/15.0A	(1hr, 1.60V/cell, 25°C / 77°F)
Max Discharge Current		
Internal Resistance		
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (5 ~ 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 - Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.6V ~ 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(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

F11 Terminal



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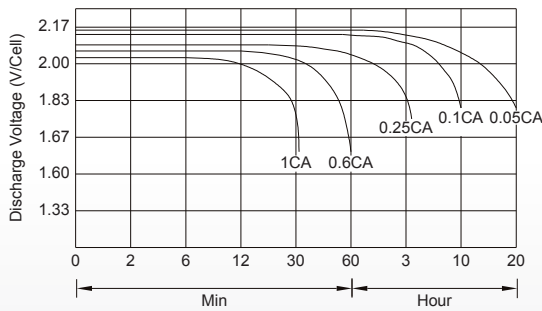
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h
1.60V/cell	858	588	429	257	158	65.5	44.8	26.5	13.2
1.67V/cell	772	537	417	250	158	65.3	44.5	26.1	13.1
1.70V/cell	733	517	402	245	158	65.3	44.5	25.9	13.1
1.75V/cell	652	478	380	240	156	64.8	44.1	25.5	13.1
1.80V/cell	588	443	363	233	154	64.6	43.7	25.0	12.6
1.85V/cell	446	365	314	214	152	64.3	43.4	24.6	11.9

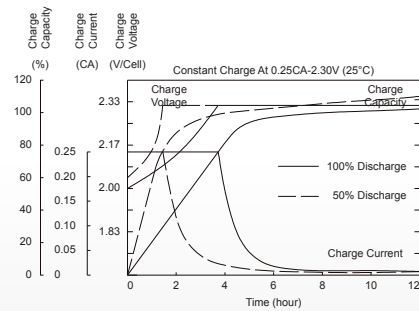
Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h
1.60V/cell	1414	975	760	485	312	126	87.6	52.0	25.8
1.67V/cell	1340	963	752	475	302	126	87.6	51.2	25.7
1.70V/cell	1252	938	740	463	294	126	87.6	50.8	25.7
1.75V/cell	1166	877	696	451	291	124	86.6	49.9	25.6
1.80V/cell	1046	816	654	439	286	122	85.2	49.0	24.7
1.85V/cell	838	676	571	402	283	122	84.0	48.2	23.2

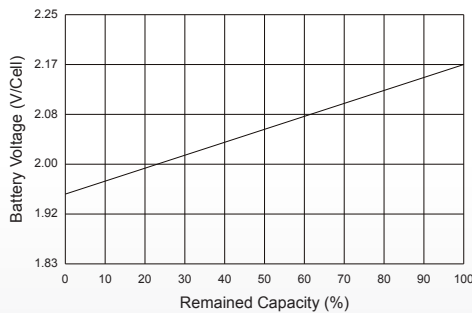
Discharge Characteristics



Charge Characteristics



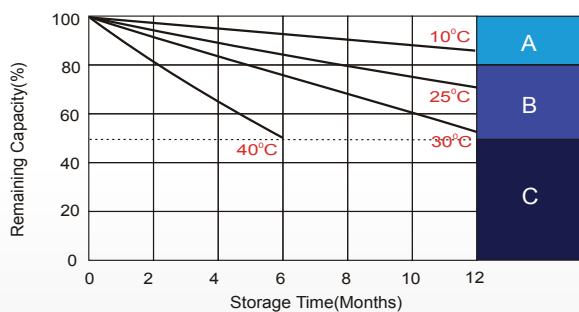
Relationship of OCV and state of charge



Life Expectancy Cycle Use

- 100% depth of discharge 350 cycles
- 80% depth of discharge 600 cycles
- 50% depth of discharge 900 cycles
- 30% depth of discharge 1500 cycles
- 20% depth of discharge 1700 cycles

Self Discharge Characteristics



- A** No supplementary charge required
(Carry out 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 2.45V/cell.
3. Charged for 8-10 hours at limited current 0.05CA.
- 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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