UCG 24-12
12V 24AH
Deep Cycle

Ultracell®
'Quality in Every Language'

UCG24-12

Physical Specification

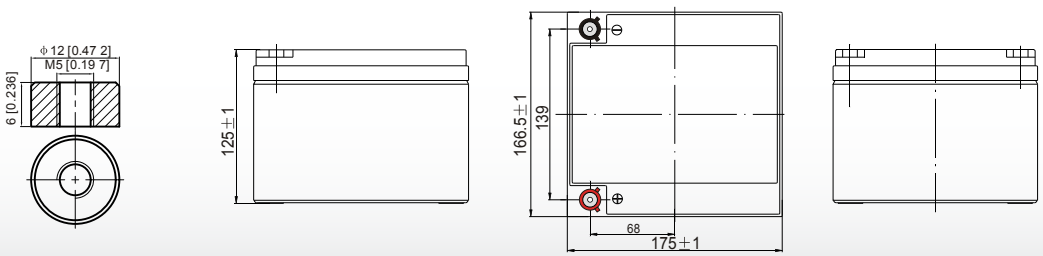
Part Number:	UCG24-12
Length:	166 ± 2 mm
Width:	175 ± 2 mm
Container Height:	125 ± 2 mm
Total Height (with terminal):	125 ± 2 mm
Approx Weight:	Approx 8.4 kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity (20HR)	24.0AH
Terminal Type	Standard Terminal	F12
	Optional Terminal	F3
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	24.9 AH/1.20A	(20hr,1.80V/cell, 25°C / 77°F)
	24.0 AH/2.23A	(10hr,1.80V/cell, 25°C / 77°F)
	19.2 A H/3.84A	(5hr,1.75V/cell, 25°C / 77°F)
	16.7 AH/5.57A	(3hr,1.75V/cell, 25°C / 77°F)
	13.2 AH/13.2A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	288A (5s)	
Internal Resistance	Approx 15.8mΩ	
Discharge Characteristics	Operating Temp. Range	
		Discharge: -20 ~ 55°C (-4 ~ 131°F)
		Charge: 0 ~ 40°C (32 ~ 104°F)
	Nominal Operating Temp. Range	Storage: -20 ~ 50°C (-4 ~ 122°F)
	Cycle Use	25 ± 3°C (77 ± 5°F) Inital Charging Current less than 6.0A.Voltage
	Standby Use	14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C No limit on Initial Charging Current Voltage
	Capacity affected by Temperature	13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
		40°C (104°F) 103%
		25°C (77°F) 100%
Design Floating Life at 20°C	12 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

F12 Terminal



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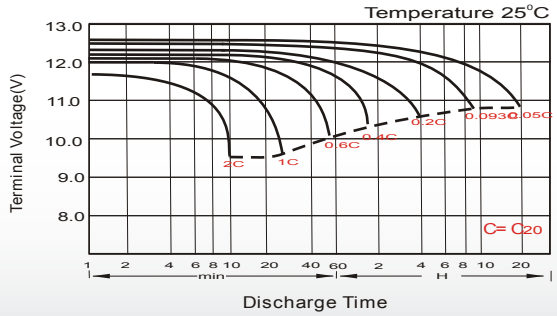
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	20.3	15.9	12.2	10.2	6.46	4.92	4.07	3.52	3.04	2.69	2.42	2.22	2.10	1.15
1.80V/cell	23.3	17.8	13.4	11.2	6.98	5.27	4.32	3.70	3.19	2.81	2.54	2.33	2.19	1.20
1.75V/cell	26.1	19.6	14.5	12.0	7.40	5.57	4.52	3.84	3.30	2.91	2.62	2.40	2.23	1.22
1.70V/cell	28.2	21.0	15.4	12.7	7.85	5.80	4.67	3.96	3.42	3.01	2.70	2.46	2.28	1.24
1.67V/cell	29.3	21.8	15.9	13.2	8.05	5.98	4.79	4.04	3.47	3.05	2.74	2.50	2.31	1.25
1.60V/cell	31.8	23.3	17.1	14.0	8.38	6.22	4.97	4.17	3.56	3.12	2.79	2.55	2.36	1.27

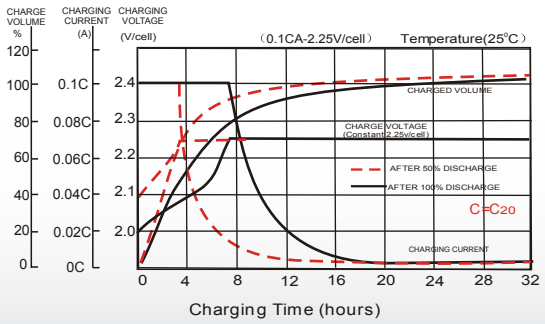
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	38.9	30.7	23.6	19.8	12.6	9.64	8.01	6.95	6.01	5.34	4.82	4.41	4.18	2.30
1.80V/cell	43.9	34.0	25.8	21.8	13.6	10.3	8.46	7.27	6.29	5.57	5.04	4.63	4.36	2.39
1.75V/cell	48.8	37.0	27.7	23.2	14.4	10.8	8.84	7.53	6.50	5.75	5.19	4.76	4.44	2.44
1.70V/cell	52.0	39.3	29.2	24.4	15.1	11.3	9.10	7.74	6.71	5.93	5.34	4.89	4.54	2.47
1.67V/cell	53.5	40.4	30.0	25.1	15.5	11.6	9.30	7.88	6.80	6.00	5.41	4.94	4.58	2.49
1.60V/cell	57.4	42.9	32.0	26.6	16.0	12.0	9.62	8.10	6.94	6.12	5.49	5.03	4.67	2.52

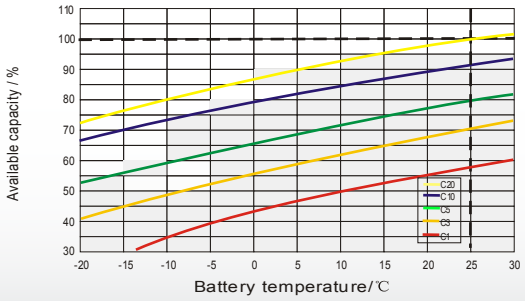
Discharge Characteristics



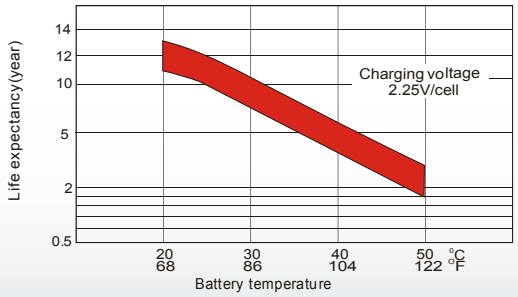
Float Charging Characteristics



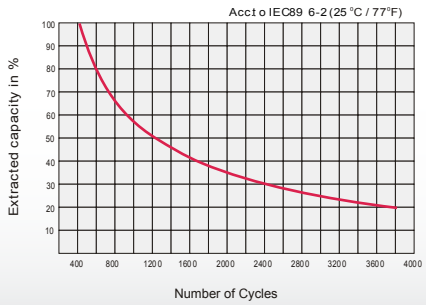
Temperature Effects in Relation to Battery Capacity



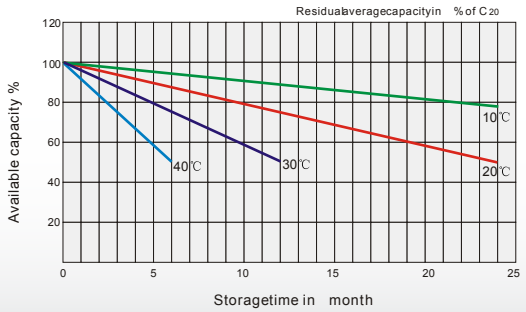
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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