



**EGYPTIAN
INTERNATIONAL
COMPANY**

12V 35 Ah

STAND-BY BATTERY SOLAR SERIES

**TOWARDS
A BRIGHTER FUTURE**

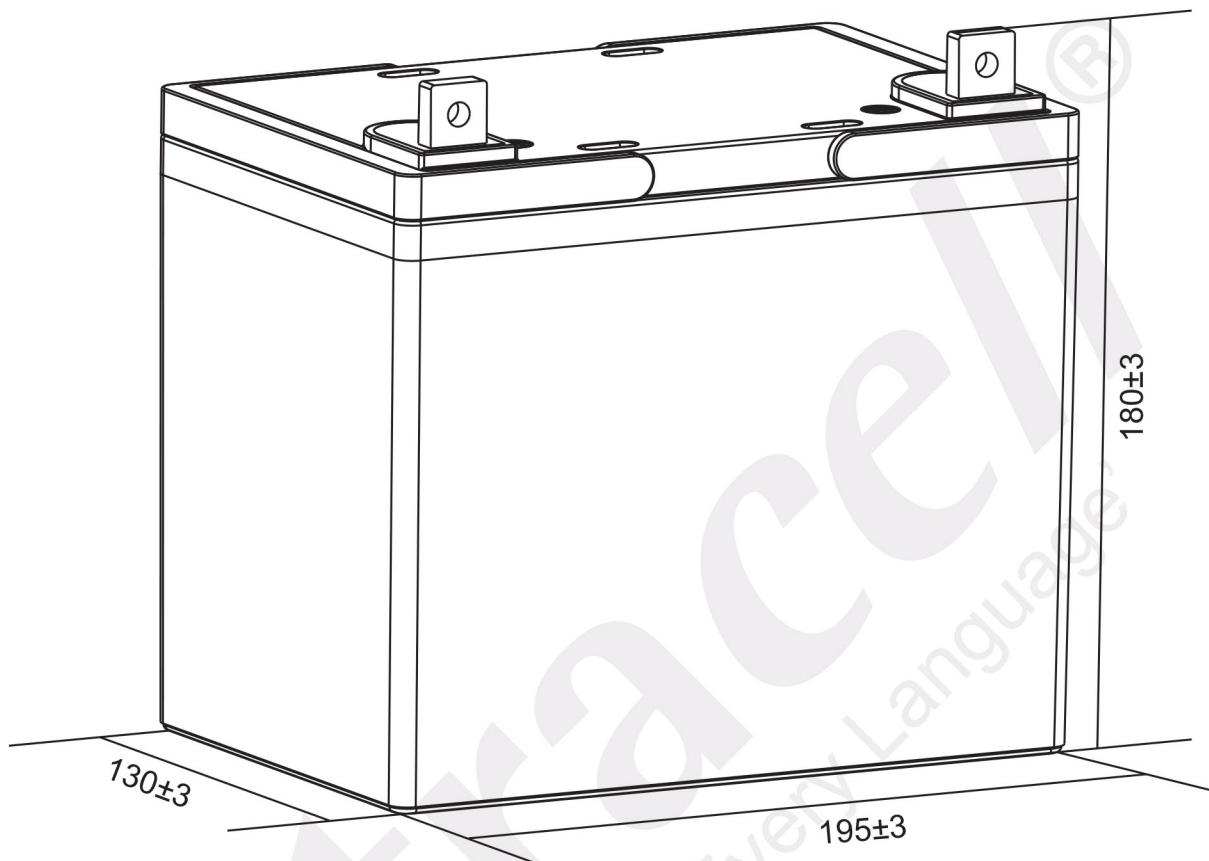


VdS

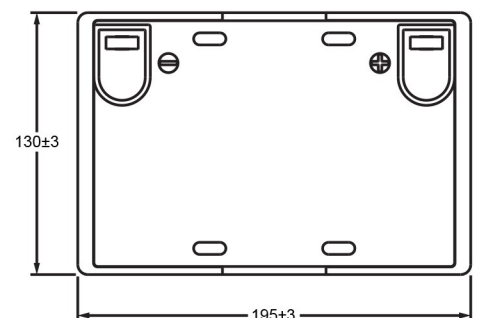
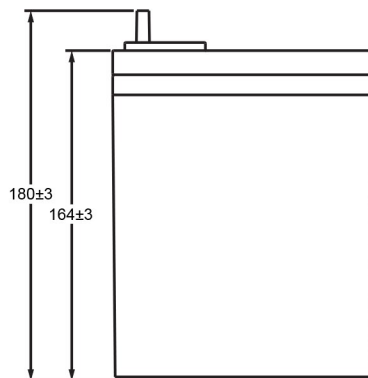
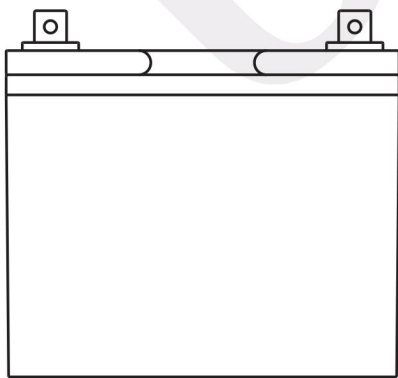


**SINCE
1959**

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Technical Dimensions (mm)

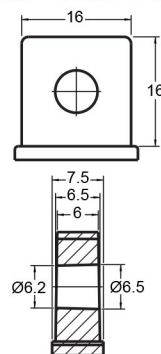


Image

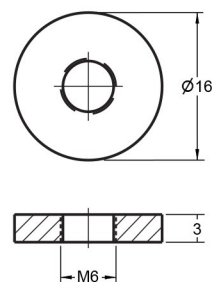


Terminal Dimensions (mm)

Standard Terminal: F5



Standard Terminal: F6



Technical Specification

Output	Nominal Voltage	12V
	Nominal Capacity (20HR)	35Ah
Terminal Type	Standard Terminal	F5
	Optional Terminal	F6
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20HR 1.80V/cell, 25°C)	35.0 Ah/1.65A
	(10HR 1.80V/cell, 25°C)	30.6 Ah/3.06A
	(5HR 1.75V/cell, 25°C)	27.8 Ah/5.56A
	(3HR 1.75V/cell, 25°C)	24.6 Ah/8.20A
	(1HR 1.60V/cell, 25°C)	20.4 Ah/20.4A
Max Discharge Current	420A (5s)	
Internal Resistance	Approx 12mΩ	
Discharge Characteristics	Operating Temp Range	Discharge: -15 ~ 50°C
		Charge: 0 ~ 40°C
		Storage: -15 ~ 40°C
	Nominal Operating Temp Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 8.75A. Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 8.75A Voltage 13.5V ~ 13.8V @ 25°C Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C 103%
		25°C 100%
		0°C 86%
Design Floating Life at 20°C	10 Years	

Self Discharge

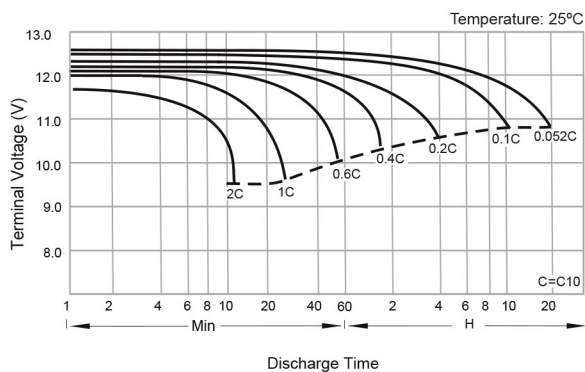
Ultracell® UCG batteries may be stored for up to 9 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

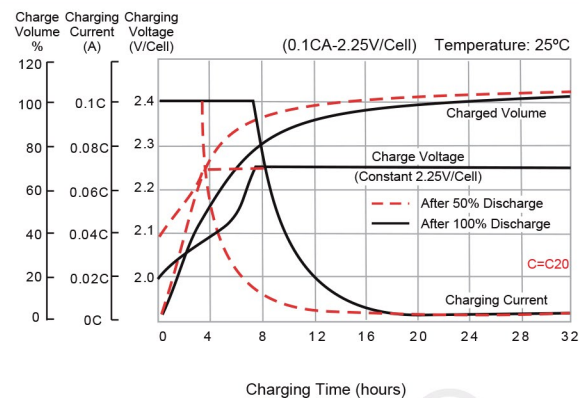
A = Amperes W = Watts

F.V/TIME	5	10	15	20	30	45	60	2	3	4	5	6	8	10	20
A W	min	min	min	min	min	min	min	hours	hours	hours	hours	hours	hours	hours	hours
1.85V/cell	57.9	44.4	36.8	31.8	24.8	18.5	15.6	9.53	7.36	6.04	5.08	4.33	3.47	2.94	1.65
	109.1	84.0	70.0	60.8	47.7	35.9	30.4	18.6	14.4	11.88	10.02	8.57	6.90	5.86	3.21
1.80V/cell	76.5	56.0	43.8	37.1	28.5	21.1	17.4	10.36	7.91	6.43	5.38	4.58	3.66	3.06	1.70
	141.7	104.3	82.1	70.1	54.4	40.6	33.6	20.2	15.4	12.59	10.58	9.05	7.26	6.08	3.29
1.75V/cell	88.1	62.8	48.9	40.7	30.4	22.3	18.3	10.86	8.20	6.66	5.56	4.72	3.74	3.12	1.72
	159.8	115.0	90.3	76.0	57.4	42.5	35.4	21.1	16.0	13.00	10.89	9.29	7.41	6.21	3.34
1.70V/cell	98.1	69.2	52.7	43.3	32.1	23.4	19.2	11.31	8.48	6.85	5.72	4.86	3.82	3.20	1.74
	174.5	124.6	96.0	79.9	60.2	44.4	36.7	21.8	16.5	13.34	11.17	9.54	7.55	6.35	3.39
1.65V/cell	107.2	74.0	55.6	45.5	33.6	24.1	19.7	11.55	8.79	7.06	5.84	4.95	3.89	3.25	1.75
	187.4	131.1	99.7	83.1	62.3	45.4	37.5	22.2	17.0	13.71	11.39	9.69	7.67	6.44	3.42
1.60V/cell	119.1	80.8	59.8	48.9	35.7	25.5	20.4	12.02	9.10	7.29	6.04	5.07	3.94	3.30	1.76
	204.1	140.5	105.6	88.3	65.6	47.6	38.7	23.0	17.5	14.11	11.75	9.89	7.75	6.53	3.45

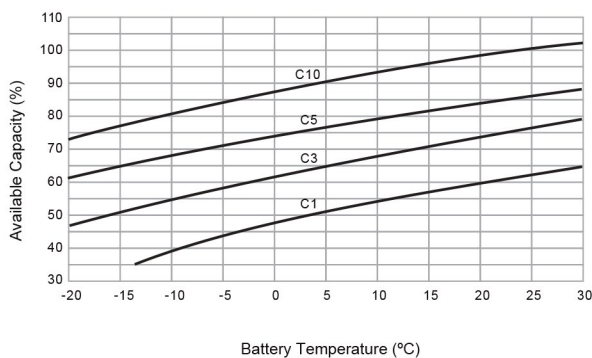
Discharge Characteristics



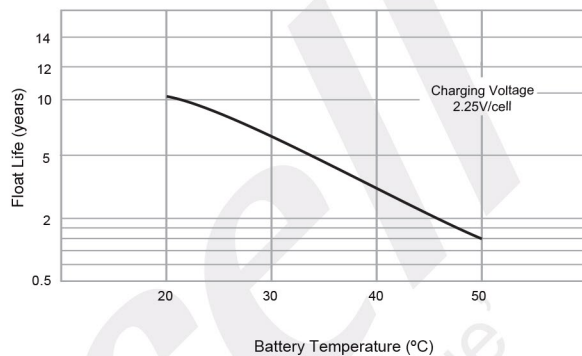
Float Charging Characteristics



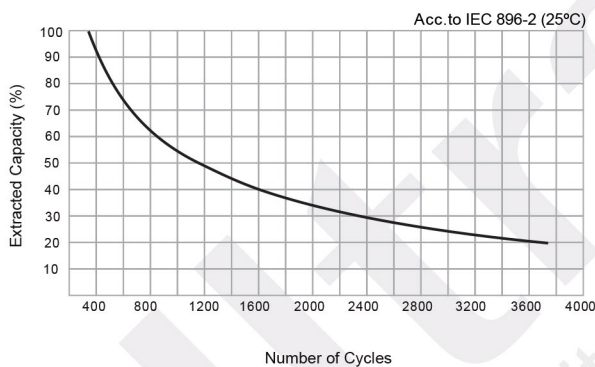
Temperature Effects in Relation to Battery Capacity



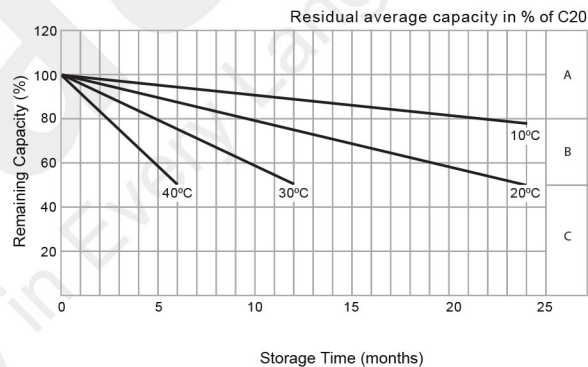
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity vs. Storage Time



General Relation of Capacity vs. Storage Time (Notes)

- No supplementary charge required.
(Carryout supplementary charge before use if 100% capacity is required.)
- Supplementary charge required before use. Optional charging way as below:
 - Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 - Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 - Charged for 8 ~ 10 hours at limited current 0.05 CA.
- Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.