Ultracell®

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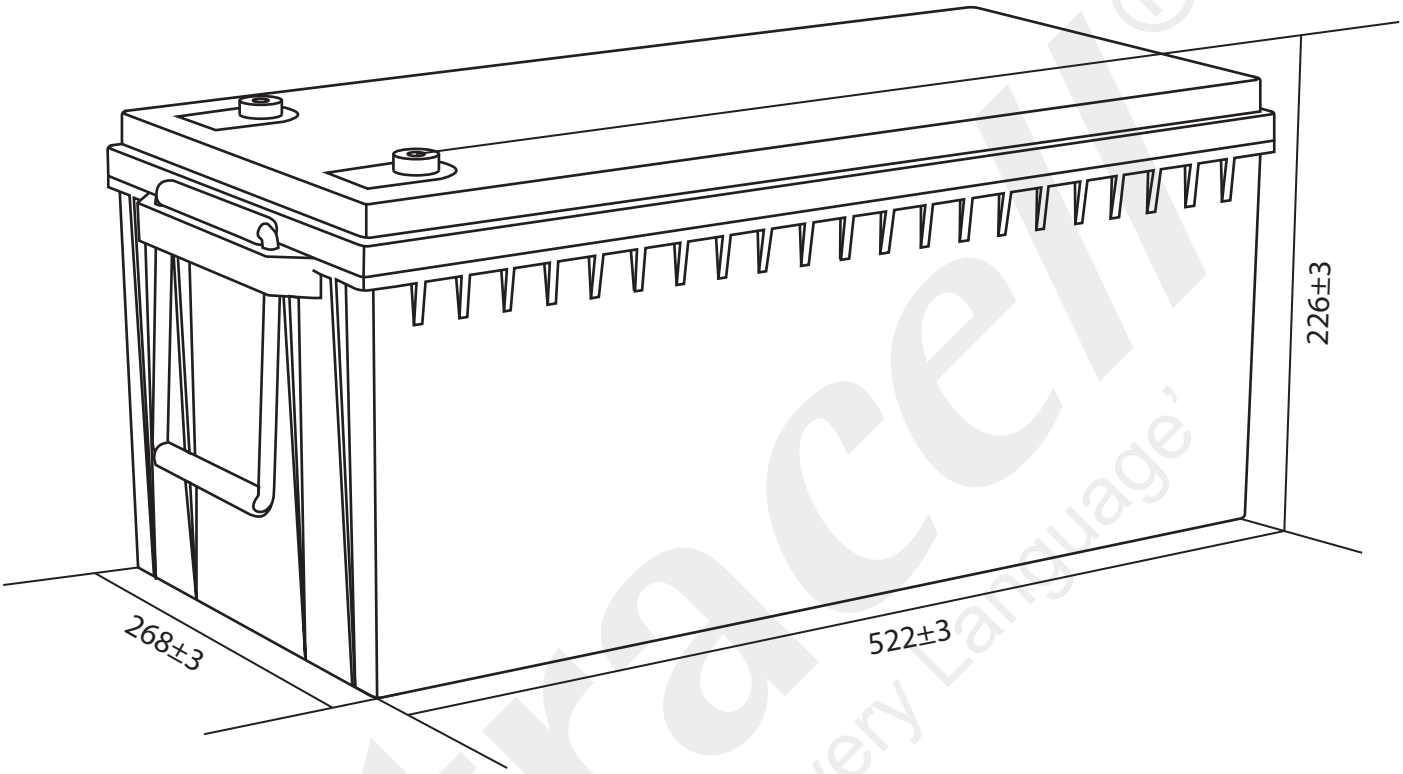
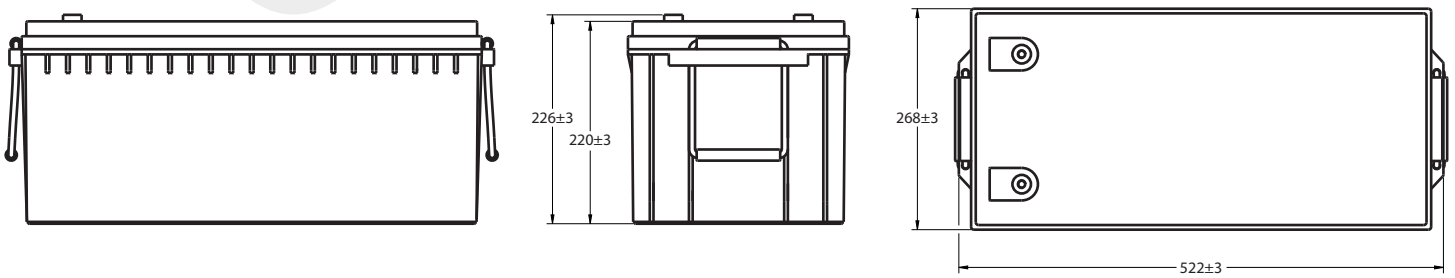
UCG275-12

12V 275Ah

Solar Series



Technical Dimensions (mm)



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TechData

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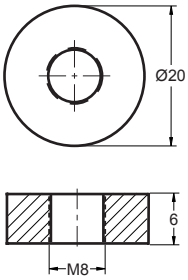
Image

Terminal Dimensions (mm)

Standard
Terminal: F11



Technical Specification

Output	Nominal Voltage Nominal Capacity (10HR)	12V 275Ah
Terminal Type	Standard Terminal	F11
Container Material	Standard Option Flame Retardant Option (FR)	ABS ABS (UL94:VO)
Rated Capacity	(20HR 1.80V/cell, 25°C) (10HR 1.80V/cell, 25°C) (5HR 1.75V/cell, 25°C) (1HR 1.60V/cell, 25°C)	281.0 Ah/12.9A 275.0 Ah/27.5A 240.0 Ah/48.1A 171.0 Ah/171.0A
Max Discharge Current	2500A (5s)	
Internal Resistance	Approx 2.5mΩ	
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 82.5A. Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 82.5A. 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 (A / W)	15 min	30 min	60 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours	20 hours
1.80V/cell	390 4285	246 2755	155 1773	95.0 1101	66.7 784	54.7 643	46.7 552	40.8 482	32.0 380	27.5 328	12.9 25.6
1.75V/cell	412 4524	255 2860	160 1829	97.5 1129	68.8 809	56.4 663	48.1 569	42.1 497	33.0 392	27.7 331	13.0 25.8
1.70V/cell	427 4683	261 2931	164 1866	99.0 1146	69.2 814	56.8 668	48.5 573	42.4 501	33.2 395	27.9 333	13.3 26.3
1.65V/cell	443 4863	270 3024	168 1915	99.9 1157	69.7 820	57.2 672	48.8 577	42.7 504	33.5 398	27.9 334	13.4 26.5
1.60V/cell	454 4982	275 3086	171 1944	100 1164	70.1 825	57.5 676	49.1 580	42.9 507	33.7 400	28.0 334	13.5 26.7

VdS

MH 29410

IEC 60896
IEC 62321

Qualitas Veritas
ISO 9001:2015

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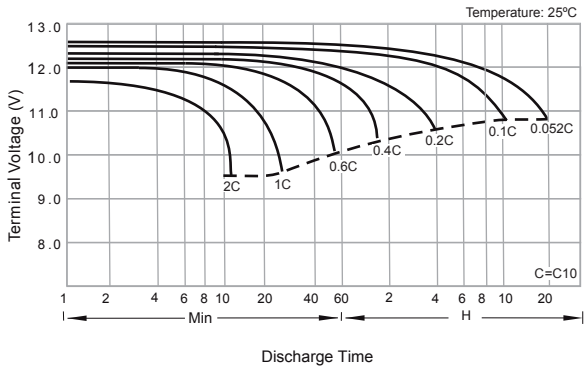
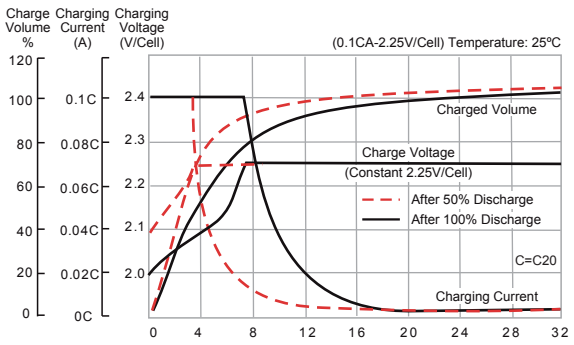
Discharge Characteristics



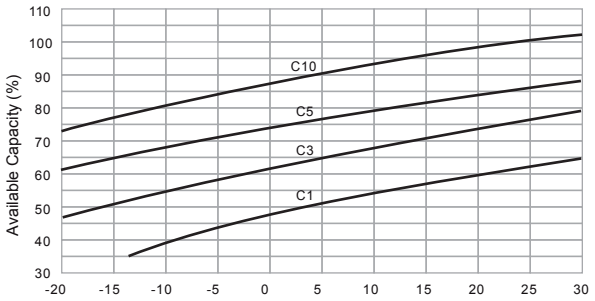
Discharge Time

Float Charging Characteristics



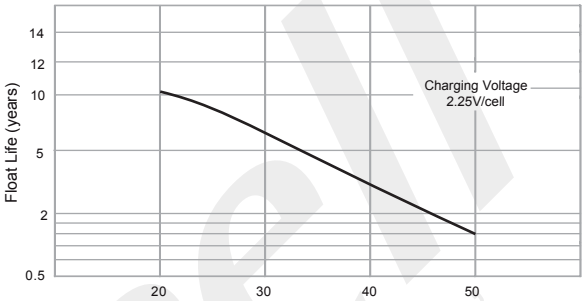
Charging Time (hours)

Temperature Effects in Relation to Battery Capacity



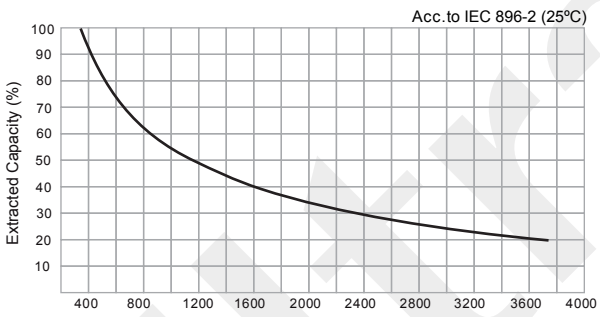
Battery Temperature (ºC)

Effect of Temperature on Long Term Float Life



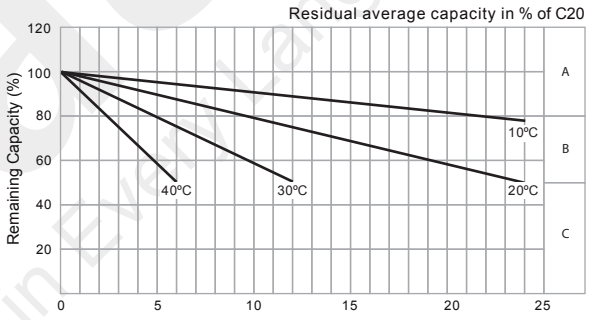
Battery Temperature (ºC)

Cycle Life in Relation to Depth of Discharge



Number of Cycles

General Relation of Capacity vs. Storage Time



Storage Time in Months

General Relation of Capacity vs. Storage Time (Notes)

A) No supplementary charge 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 2.45Vcell.
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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