

UZV100-12

12V 100AH

OPzV

Ultracell®

Quality in Every Language

UZV100-12

Awaiting Image

Physical Specification

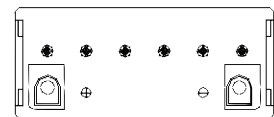
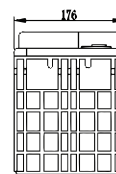
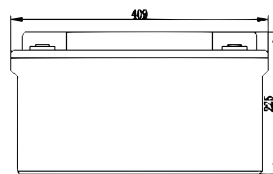
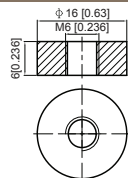
Part Number	UZV100-12
Length	409 ± 2 mm
Width	176 ± 2 mm
Container Height	223 ± 2 mm
Total Height (with terminal)	223 ± 2 mm
Approx Weight	35 kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	100AH
Terminal Type	Standard Terminal	F6
Container Material	Standard Option	ABS
	10 hr (1.80V/cell, 20°C)	100AH
	5 hr (1.75V/cell, 20°C)	89AH
	1 hr (1.60V/cell, 20°C)	56AH
Max Discharge Current	625A (5 sec)	
Internal Resistance	Approx 6.3mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15°C~50°C Charge: -10°C~50°C Storage: -20°C~50°C
	Nominal Operating Temp. Range	25±3°C
	Maximum Initial Charging Current	20A
	Cycle Use	13.80 ~ 14.10V Temp Coefficient -30mV/°C
	Standby Use	13.5V ~ 13.8V at 25°C Temp. Coefficient -18mV/°C
	Capacity affect by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	20 Years	
Self Discharge	3% to 2% of capacity declines per month @20°C. Ultracell UZV batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

F6 Terminal



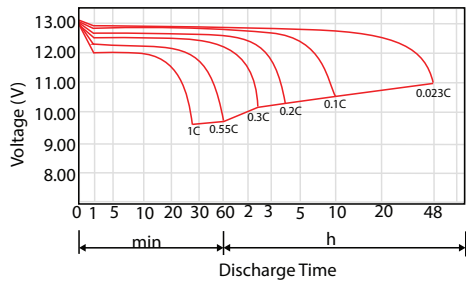
Constant Current Discharge (Amperes) at 20°C

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V	122	120	108	83.0	53.1	34.3	25.3	21.3	18.2	15.5	11.7	10.2	5.40	4.65
1.65V	118	116	105	81.3	52.3	34.1	25.1	21.2	18.0	15.4	11.7	10.2	5.38	4.64
1.70V	113	112	102	78.9	51.0	33.8	25.0	21.0	17.9	15.3	11.6	10.1	5.37	4.61
1.75V	109	107	98.1	76.9	50.0	33.3	24.8	20.9	17.8	15.2	11.5	10.1	5.34	4.60
1.80V	102	101	92.9	74.1	48.4	32.4	24.1	20.3	17.3	14.7	11.2	10.0	5.30	4.58

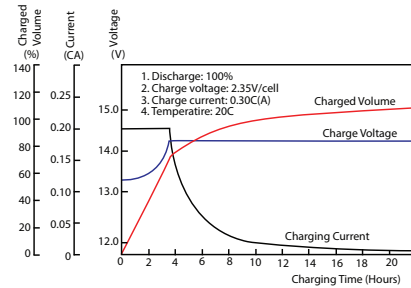
Constant Power Discharge (Watts) at 20°C

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V	214	216	198	155	101	66.2	49.6	41.8	35.8	30.5	23.2	20.3	10.8	9.34
1.65V	207	210	193	152	99.4	65.8	49.3	41.5	35.6	30.4	23.1	20.2	10.8	9.33
1.70V	199	201	186	147	96.9	65.2	48.9	41.3	35.3	30.2	22.9	20.2	10.7	9.26
1.75V	190	192	179	144	94.9	64.3	48.6	41.0	35.1	29.9	22.8	20.0	10.7	9.24
1.80V	179	181	170	139	92.0	62.6	47.1	39.7	34.0	29.0	22.1	19.9	10.6	9.21

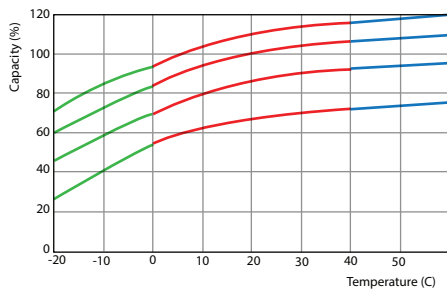
Discharge Characteristics



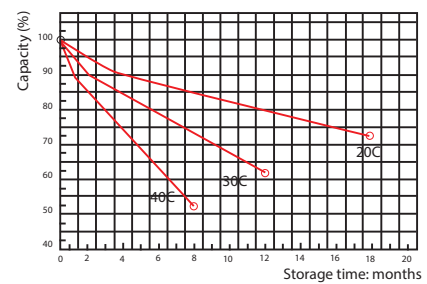
Charging Characteristics



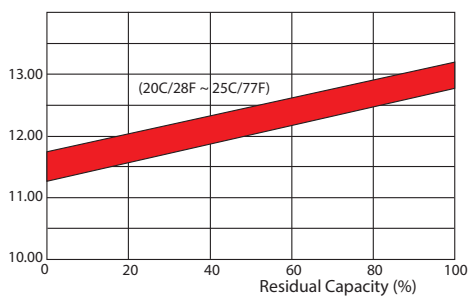
Temperature Effects in Relation to Battery Capacity



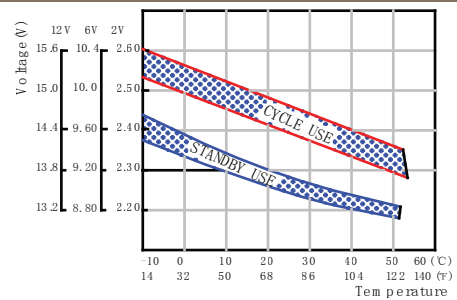
Self-discharge Characteristics



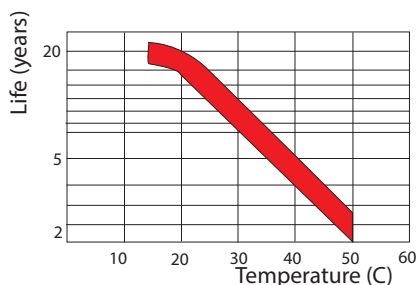
The Relationship for Open Circuit Voltage and Residual Capacity



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D

