

80PzV800

2V 800AH

OPzV - UzV

Ultracell®

'Quality in Every Language'

80PzV800

Awaiting Image

Physical Specification

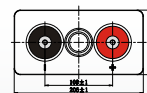
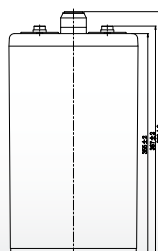
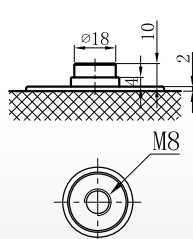
Part Number:	80PzV800
Length:	191 ± 3 mm (7.52 inches)
Width:	210 ± 3 mm (8.27 inches)
Container Height:	646 ± 3 mm (25.4 inches)
Total Height (with terminal):	681 ± 3 mm (26.8 inches)
Approx Weight:	Approx 63.0 kg (138.9lbs)

Specifications

	Nominal Voltage	2V	
	Nominal Capacity (10HR)	800.0AH	
Terminal Type	Standard Terminal	F11	
	Optional Terminal	-	
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	984 AH/984A	(100 hr, 1.80V/cell, 20°C/68°F)	
	800 AH/80.0A	(10hr, 1.80V/cell, 20°C / 68°F)	
	690 A H/138A	(5hr, 1.75V/cell, 20°C / 68°F)	
	609 AH/203A	(3hr, 1.75V/cell, 20°C / 68°F)	
	454 AH/454A	(1hr, 1.60V/cell, 20°C / 68°F)	
Max Discharge Current	6400A (5s)		
Internal Resistance	Approx 0.28mΩ		
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 55°C (-4 ~ 131°F)	
		Charge: 0 ~ 40°C (32 ~ 104°F)	
		Storage: -20 ~ 50°C (-4 ~ 122°F)	
	Nominal Operating Temp. Range	-	
	Cycle Use	Initial Charging Current less than 160.0A. Voltage 2.40V ~ 2.50V at 20°C (68°F) Temp. Coefficient -5mV/°C	
	Standby Use	No limit on Initial Charging Current Voltage 2.25V ~ 2.30V at 20°C (68°F) Temp. Coefficient -3mV/°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	20 Years		
Self Discharge	<2% pre month @ 20°C (68°F)		

Dimensions

Terminal



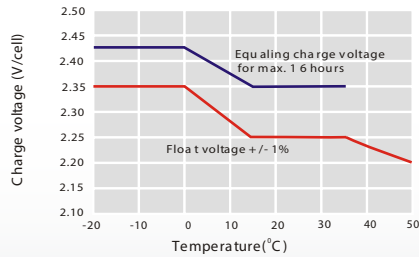
Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	545	518	446	356	236	183	126	87.8	74.9
1.80V/cell	671	627	520	401	259	199	135	94.0	80.0
1.75V/cell	794	702	554	418	267	203	138	95.6	81.3
1.70V/cell	891	766	587	434	273	207	140	96.8	82.2
1.65V/cell	956	809	610	446	279	211	142	98.0	83.0
1.60V/cell	1001	838	626	454	283	214	144	98.8	83.6

Constant Power Discharge (Watts) at 20 °C (68°F)

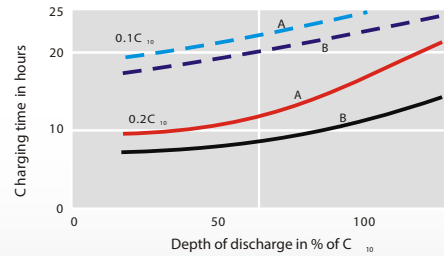
F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	1014	973	853	689	459	357	247	174	149
1.80V/cell	1226	1162	984	771	502	387	265	186	159
1.75V/cell	1425	1282	1038	798	513	394	270	189	161
1.70V/cell	1571	1379	1088	823	524	400	273	191	163
1.65V/cell	1657	1435	1120	841	532	406	276	193	164
1.60V/cell	1701	1464	1137	850	536	409	278	193	165

Discharge Characteristics



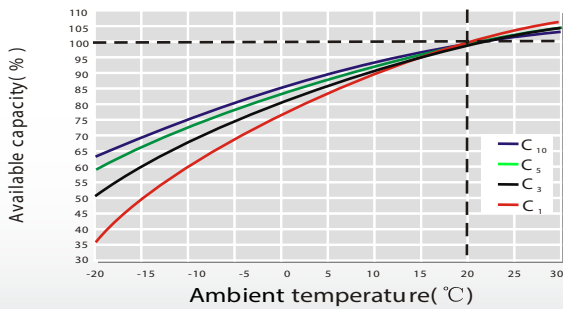
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for continuously different battery ambient temperature.

Charging Characteristics

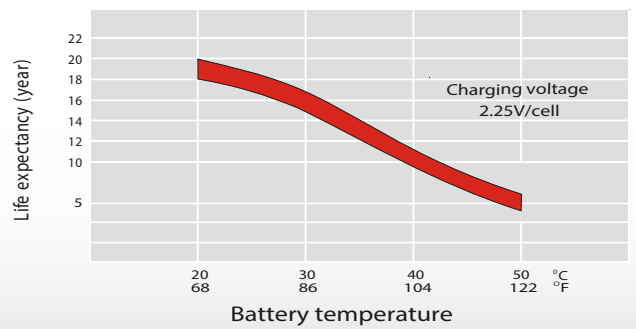


Charge voltage:
 A—2.25 V/cell B — 2.40 V/cell
 - - - State of charge 100% - - - State of charge 90%

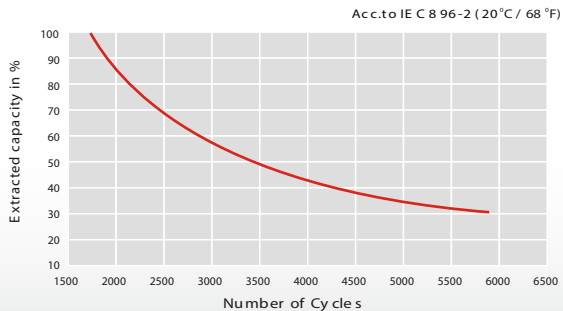
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

