

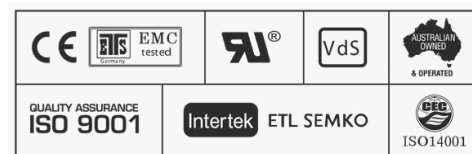
### Specifications

<b>Part Number</b>	<b>80PzV800</b>	
<b>Nominal Voltage</b>	2 Volt	
<b>Nominal Capacity (20 HR)</b>	800 AH	
<b>Dimension</b>	Length	191 +/-2mm (7.51 inches)
	Width	210 +/-2mm (8.25 inches)
	Container Height	646 +/-2mm (25.39 inches)
	Total Height	681 +/-2mm (26.76 inches)
<b>Approx Weight</b>	64.5 kg (142.16lbs)	
<b>Terminal</b>	T11	
<b>Terminal Torque</b>	11 - 14.7 Nm	
<b>Container Material</b>	ABS	
<b>Rated Capacity</b>	1008 AH / 10.1A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	800 AH / 80.0A	(10hr,1.80V/cell, 25°C/77°F)
	690 A H / 138A	(5hr,1.75V/cell, 25°C/77°F)
	609 AH / 203A	(3hr,1.75V/cell, 25°C/77°F)
	454 AH / 454A	(1hr,1.60V/cell, 25°C/77°F)
<b>Plate Type</b>	Tubular Die-Cast	
<b>Separator Type</b>	Advanced Micro-Pore PVC-SiO <sub>2</sub>	
<b>Max. Discharge Current</b>	6400A (5s)	
<b>Short Circuit Current</b>	12800	
<b>Internal Resistance</b>	Approx 0.5mΩ	
<b>Design Life</b>	18 - 20 Years	
<b>Warranty - Solar</b>	5 Years	
<b>Operating Temp. Range</b>	Discharge	-20 ~ 55°C (-4 ~ 131°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-20 ~ 50°C (-4 ~ 122°F)
<b>Nominal Operating Temp. Range</b>	-	
<b>Cycle Use</b>	Initial Charging Current less than 250.0A.Voltage 2.40V ~ 2.50V at 20°C (68°F) Temp. Coefficient -5mV/°C	
<b>Standby Use</b>	No limit on Initial Charging Current Voltage 2.25V ~ 2.30V at 20°C (68°F)Temp. Coefficient -3mV/°C	
<b>Capacity affected by temperature</b>	40°C (104°F)	1.03
	25°C (77°F)	1.02
	0°C (32°F)	0.86
<b>Self Discharge</b>	<2% per month @ 20°C (68°F)	



### Applications

- ♦ Solar Power Storage
- ♦ Wind Power Storage
- ♦ Telecommunications Standby power
- ♦ Uninterruptable Power Supplies (UPS)
- ♦ Emergency Lighting Systems
- ♦ Radio & Cellular Telephone Relay Stations
- ♦ Buoy Lighting
- ♦ Power stations
- ♦ Electric Power System (EPS)
- ♦ Emergency Backup Power Supply
- ♦ Communication Power Supply
- ♦ Signal Stations
- ♦ Mobile Deep Cycle Applications
- ♦ Railway Signalling
- ♦ Aircraft Signals
- ♦ Maritime Standby Power
- ♦ Process & Control Engineering
- ♦ Standby Power



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

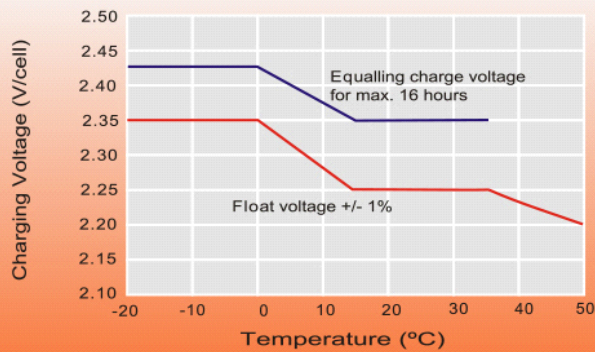
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	545	518	-	446	-	356	236	183	-	126	-	87.8	74.9	-
1.80V/cell	-	671	627	-	520	-	401	259	199	-	135	-	94	80	-
1.75V/cell	-	794	702	-	554	-	418	267	203	-	138	-	95.6	81.3	-
1.70V/cell	-	891	766	-	587	-	434	273	207	-	140	-	96.8	82.2	-
1.65V/cell	-	956	809	-	610	-	446	279	211	-	142	-	98	83	-
1.60V/cell	-	1001	838	-	626	-	454	283	214	-	144	-	98.8	83.6	-

### Constant Power Discharge (Amperes) at 25°C (77°F)

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
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	-

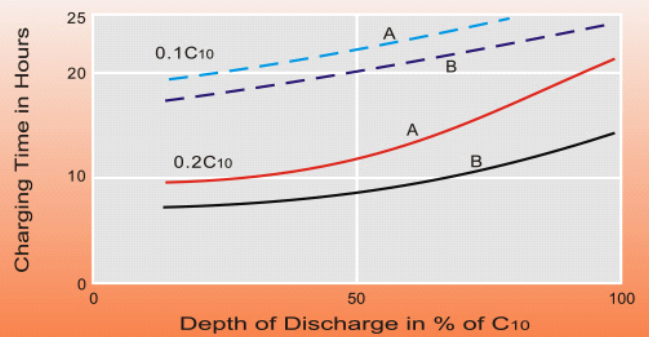
## Dimensions

### Discharge Characteristics



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

### Charging Characteristics



Charge voltage:

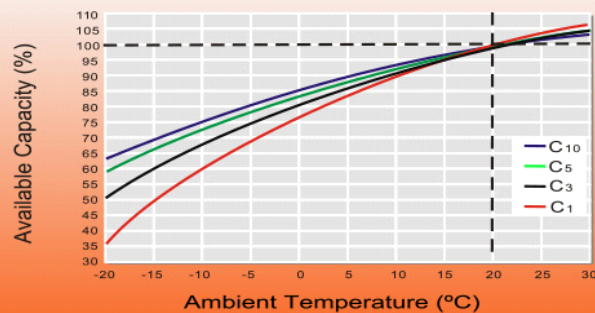
A — 2.25 V/cell

B — 2.40 V/cell

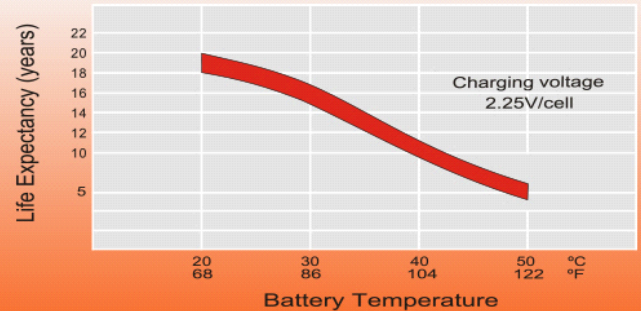
— State of charge 100%

— State of charge 90%

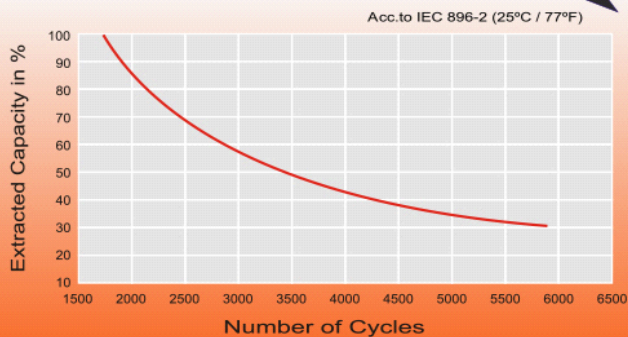
### Temperature Effects in Relation to Battery Capacity



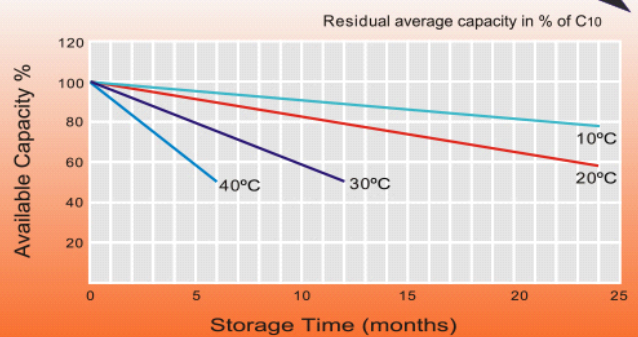
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS Storage Time



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