

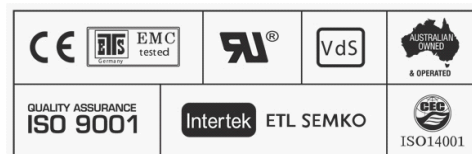
### Specifications

<b>Part Number</b>	<b>100PzV1000</b>	
<b>Nominal Voltage</b>	2 Volt	
<b>Nominal Capacity (20 HR)</b>	1000 AH	
<b>Dimension</b>	Length	233 +/-2mm (9.16 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>	78.5 kg (173.01lbs)	
<b>Terminal</b>	T11	
<b>Terminal Torque</b>	11 - 14.7 Nm	
<b>Container Material</b>	ABS	
<b>Rated Capacity</b>	1260 AH / 12.6A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	1000 AH / 100.0A	(10hr,1.80V/cell, 25°C/77°F)
	865 A H / 173A	(5hr,1.75V/cell, 25°C/77°F)
	762 AH / 254A	(3hr,1.75V/cell, 25°C/77°F)
	568 AH / 568A	(1hr,1.60V/cell, 25°C/77°F)
<b>Plate Type</b>	Tubular Die-Cast	
<b>Separator Type</b>	Advanced Micro-Pore PVC-SiO10	
<b>Max. Discharge Current</b>	8000A (5s)	
<b>Short Circuit Current</b>	16000	
<b>Internal Resistance</b>	Approx 0.45mΩ	
<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)

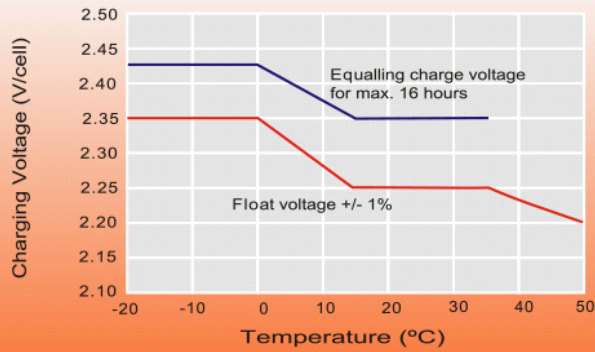
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	682	648	-	558	-	445	295	228	-	157	-	110	93.7	-
1.80V/cell	-	839	784	-	650	-	502	324	249	-	169	-	118	100	-
1.75V/cell	-	992	877	-	693	-	522	333	254	-	173	-	119	102	-
1.70V/cell	-	1113	957	-	733	-	542	342	259	-	175	-	121	103	-
1.65V/cell	-	1196	1011	-	763	-	558	349	264	-	178	-	122	104	-
1.60V/cell	-	1251	1047	-	782	-	568	354	267	-	180	-	123	105	-

### 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	-	1268	1217	-	1066	-	862	574	446	-	309	-	217	186	-
1.80V/cell	-	1532	1452	-	1230	-	964	627	483	-	332	-	232	199	-
1.75V/cell	-	1782	1603	-	1298	-	997	641	492	-	337	-	236	201	-
1.70V/cell	-	1964	1724	-	1360	-	1029	654	500	-	341	-	238	203	-
1.65V/cell	-	2071	1793	-	1400	-	1051	665	507	-	345	-	241	205	-
1.60V/cell	-	2126	1830	-	1421	-	1062	670	511	-	347	-	242	206	-

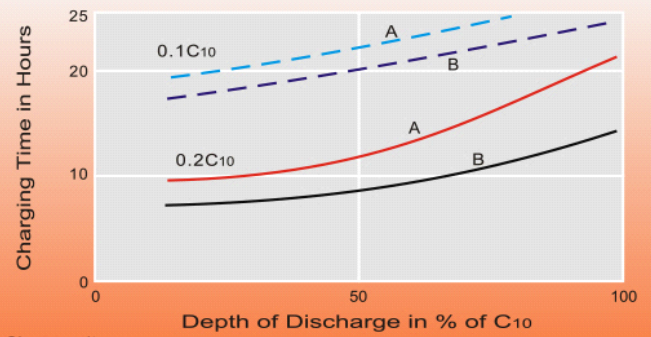
## Dimensions

### 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:

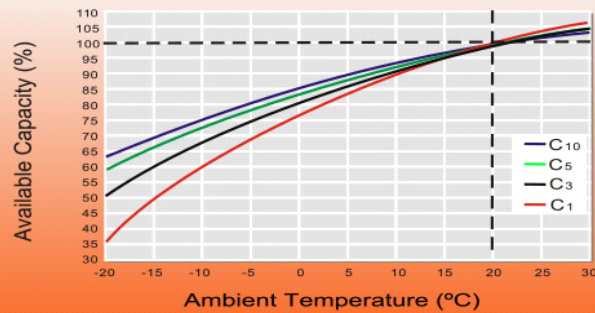
A — 2.25 V/cell

B — 2.40 V/cell

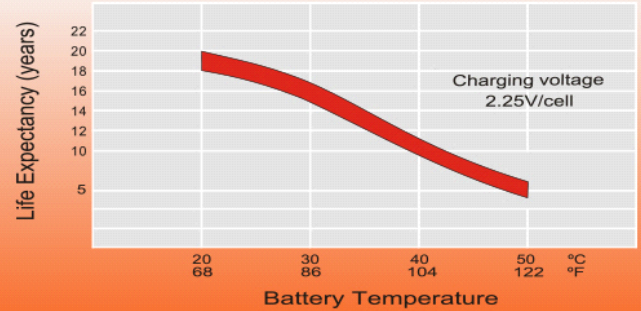
— State of charge 100%

— State of charge 90%

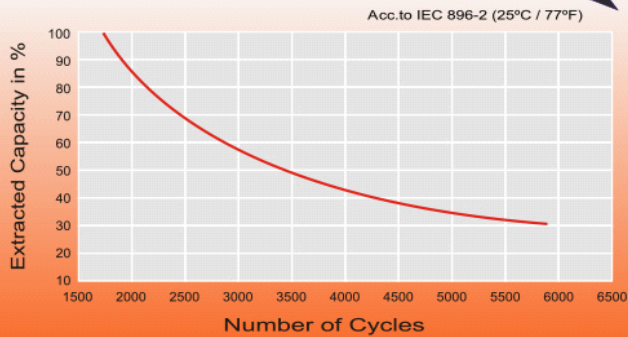
### Temperature Effects in Relation to Battery Capacity



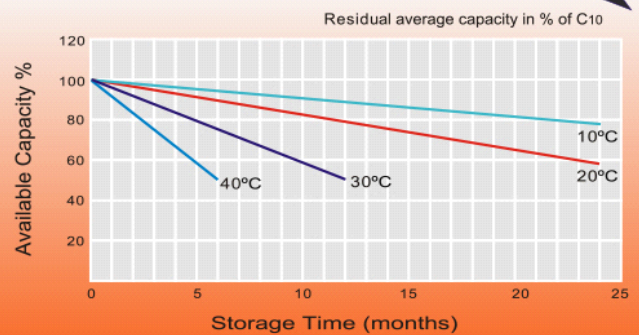
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS Storage Time



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