

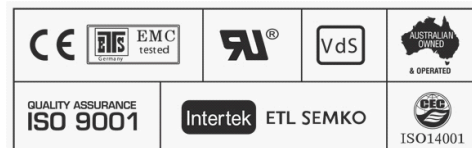
**Specifications**

<b>Part Number</b>	<b>120PzV1200</b>	
<b>Nominal Voltage</b>	2 Volt	
<b>Nominal Capacity (20 HR)</b>	1200 AH	
<b>Dimension</b>	Length	275 +/-2mm (10.81 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>	93 kg (204.97lbs)	
<b>Terminal</b>	T11	
<b>Terminal Torque</b>	11 - 14.7 Nm	
<b>Container Material</b>	ABS	
<b>Rated Capacity</b>	1512 AH / 15.1A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	1200 AH / 120.0A	(10hr,1.80V/cell, 25°C/77°F)
	1035 A H / 207A	(5hr,1.75V/cell, 25°C/77°F)
	915 AH / 305A	(3hr,1.75V/cell, 25°C/77°F)
	681 AH / 681A	(1hr,1.60V/cell, 25°C/77°F)
<b>Plate Type</b>	Tubular Die-Cast	
<b>Separator Type</b>	Advanced Micro-Pore PVC-SiO11	
<b>Max. Discharge Current</b>	9600A (5s)	
<b>Short Circuit Current</b>	19200	
<b>Internal Resistance</b>	Approx 0.4mΩ	
<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 300.0A.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)	

**NO IMAGE  
AVAILABLE**

**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)**

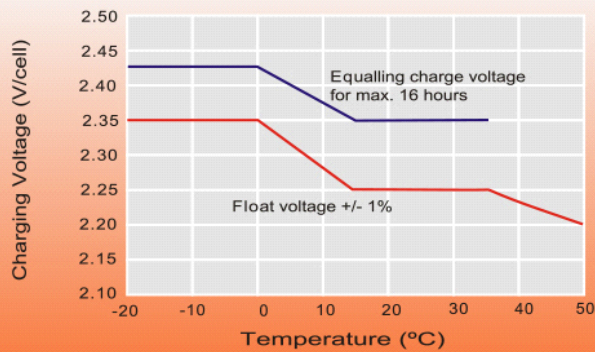
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	818	777	-	670	-	535	354	274	-	188	-	132	112	-
1.80V/cell	-	1006	941	-	780	-	602	389	298	-	203	-	141	120	-
1.75V/cell	-	1190	1053	-	832	-	626	400	305	-	207	-	143	122	-
1.70V/cell	-	1336	1149	-	880	-	651	410	311	-	210	-	145	123	-
1.65V/cell	-	1435	1213	-	915	-	669	419	317	-	214	-	147	125	-
1.60V/cell	-	1501	1256	-	939	-	681	424	321	-	216	-	148	125	-

**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	-	1522	1460	-	1279	-	1034	689	535	-	370	-	261	224	-
1.80V/cell	-	1839	1743	-	1476	-	1157	753	580	-	398	-	279	238	-
1.75V/cell	-	2138	1923	-	1557	-	1196	769	591	-	404	-	283	242	-
1.70V/cell	-	2357	2069	-	1632	-	1234	785	600	-	409	-	286	244	-
1.65V/cell	-	2486	2152	-	1680	-	1261	798	608	-	414	-	289	246	-
1.60V/cell	-	2551	2196	-	1705	-	1275	804	613	-	417	-	290	248	-

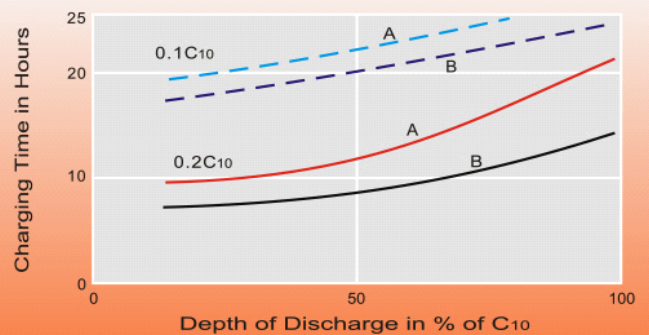
## Dimensions

### 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:

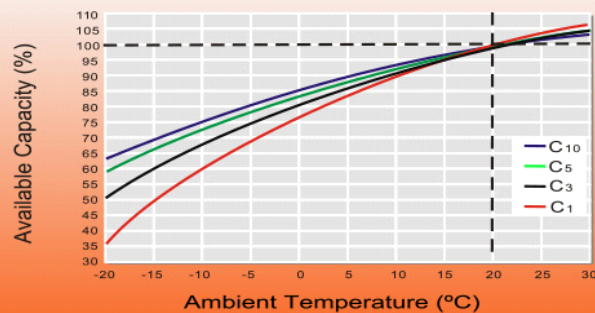
A — 2.25 V/cell

B — 2.40 V/cell

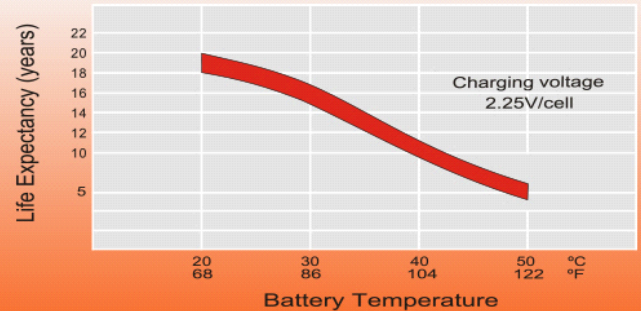
— State of charge 100%

— State of charge 90%

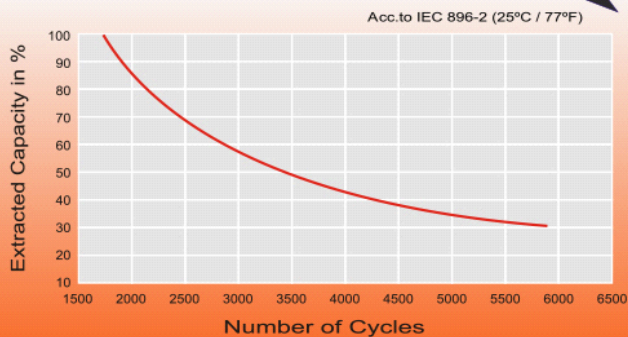
### Temperature Effects in Relation to Battery Capacity



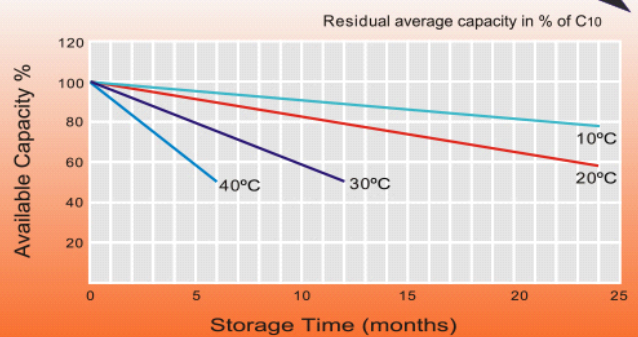
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS Storage Time



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