

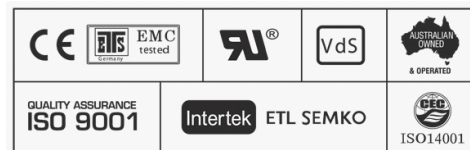
**Specifications**

<b>Part Number</b>	<b>50PzV250</b>	
<b>Nominal Voltage</b>	2 Volt	
<b>Nominal Capacity (20 HR)</b>	250 AH	
<b>Dimension</b>	Length	124 +/-2mm (4.87 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	355 +/-2mm (13.95 inches)
	Total Height	390 +/-2mm (15.33 inches)
<b>Approx Weight</b>	22 kg (48.49lbs)	
<b>Terminal</b>	T11	
<b>Terminal Torque</b>	11 - 14.7 Nm	
<b>Container Material</b>	ABS	
<b>Rated Capacity</b>	315 AH / 3.15A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	250 AH / 25.0A	(10hr,1.80V/cell, 25°C/77°F)
	219 A H / 43.8A	(5hr,1.75V/cell, 25°C/77°F)
	194.7 AH / 64.9A	(3hr,1.75V/cell, 25°C/77°F)
	143 AH / 143A	(1hr,1.60V/cell, 25°C/77°F)
<b>Plate Type</b>	Tubular Die-Cast	
<b>Separator Type</b>	Advanced Micro-Pore PVC-SiO3	
<b>Max. Discharge Current</b>	2000A (5s)	
<b>Short Circuit Current</b>	4000	
<b>Internal Resistance</b>	Approx 1.1mΩ	
<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 62.5A.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)**

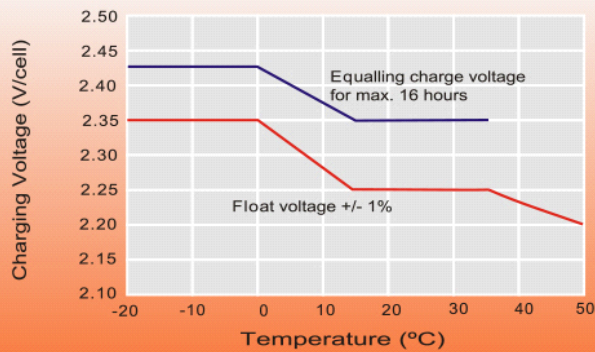
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	213	194	-	153	-	112	76	58.4	-	39.9	-	27.8	23.4	-
1.80V/cell	-	263	235	-	178	-	126	83.5	63.5	-	43	-	29.8	25	-
1.75V/cell	-	311	263	-	190	-	131	85.8	64.9	-	43.8	-	30.3	25.4	-
1.70V/cell	-	348	287	-	201	-	136	88	66.3	-	44.5	-	30.6	25.7	-
1.65V/cell	-	374	303	-	209	-	140	89.9	67.5	-	45.2	-	31	25.9	-
1.60V/cell	-	392	314	-	214	-	143	91.1	68.3	-	45.7	-	31.3	26.1	-

**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	-	397	365	-	292	-	217	148	114	-	78.4	-	55.1	46.6	-
1.80V/cell	-	480	435	-	337	-	243	161	123	-	84.3	-	58.8	49.6	-
1.75V/cell	-	558	480	-	355	-	251	165	126	-	85.6	-	59.7	50.4	-
1.70V/cell	-	615	517	-	372	-	259	168	128	-	86.7	-	60.3	50.9	-
1.65V/cell	-	648	538	-	383	-	265	171	130	-	87.7	-	60.9	51.3	-
1.60V/cell	-	665	549	-	389	-	267	173	130	-	88.2	-	61.2	51.6	-

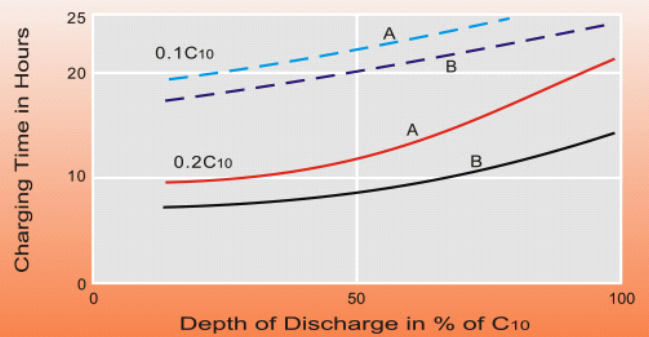
## Dimensions

### 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:

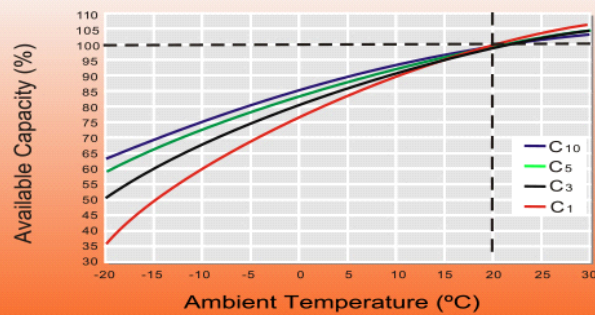
A — 2.25 V/cell

B — 2.40 V/cell

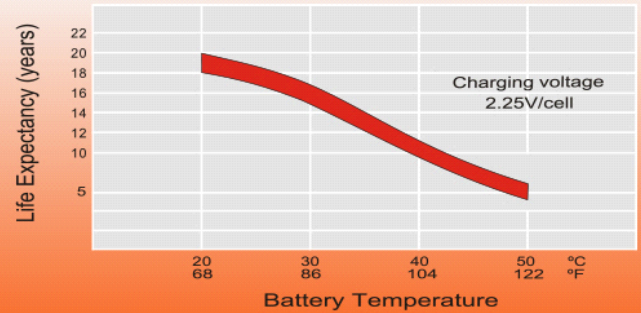
— State of charge 100%

— State of charge 90%

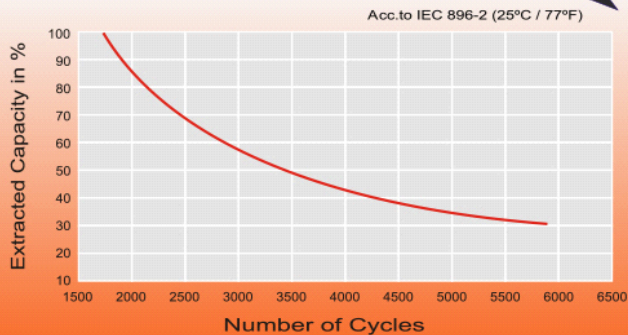
### Temperature Effects in Relation to Battery Capacity



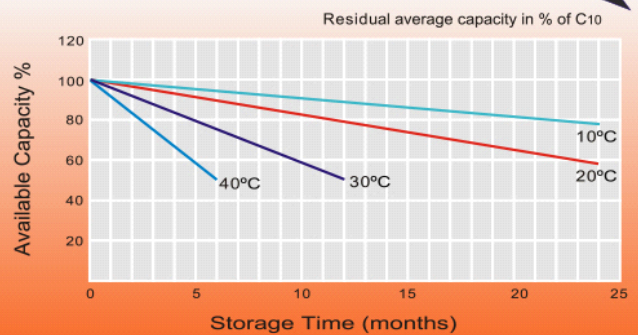
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS Storage Time



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