

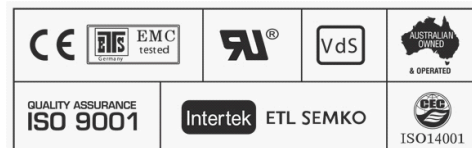
Specifications

Part Number	120PzV1500	
Nominal Voltage	2 Volt	
Nominal Capacity (20 HR)	1500 AH	
Dimension	Length	275 +/-2mm (10.81 inches)
	Width	210 +/-2mm (8.25 inches)
	Container Height	796 +/-2mm (31.28 inches)
	Total Height	831 +/-2mm (32.66 inches)
Approx Weight	115 kg (253.46lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	1890 AH / 18.9A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	1500 AH / 150.0A	(10hr,1.80V/cell, 25°C/77°F)
	1285 A H / 257A	(5hr,1.75V/cell, 25°C/77°F)
	1131 AH / 377A	(3hr,1.75V/cell, 25°C/77°F)
	849 AH / 849A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Tubular Die-Cast	
Separator Type	Advanced Micro-Pore PVC-SiO ₂	
Max. Discharge Current	12000A (5s)	
Short Circuit Current	24000	
Internal Resistance	Approx 0.3mΩ	
Design Life	18 - 20 Years	
Warranty - Solar	5 Years	
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 375.0A.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)	1.03
	25°C (77°F)	1.02
	0°C (32°F)	0.86
Self Discharge	<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)

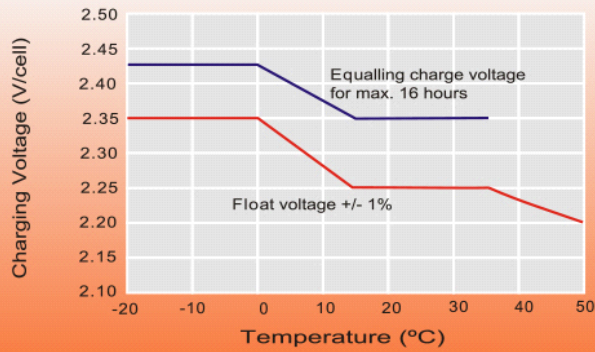
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	876	854	-	781	-	666	436	339	-	233	-	164	140	-
1.80V/cell	-	1077	1034	-	910	-	750	479	369	-	252	-	175	150	-
1.75V/cell	-	1274	1157	-	970	-	781	492	377	-	257	-	178	152	-
1.70V/cell	-	1430	1263	-	1027	-	811	504	385	-	261	-	180	154	-
1.65V/cell	-	1535	1333	-	1068	-	834	515	392	-	265	-	183	156	-
1.60V/cell	-	1606	1381	-	1095	-	849	522	396	-	267	-	184	157	-

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	-	1629	1605	-	1492	-	1288	847	661	-	459	-	324	279	-
1.80V/cell	-	1968	1916	-	1722	-	1442	926	717	-	493	-	346	298	-
1.75V/cell	-	2288	2114	-	1817	-	1491	946	730	-	501	-	351	302	-
1.70V/cell	-	2522	2274	-	1903	-	1538	966	742	-	507	-	355	305	-
1.65V/cell	-	2660	2365	-	1960	-	1572	981	752	-	513	-	359	308	-
1.60V/cell	-	2730	2414	-	1989	-	1588	989	757	-	517	-	360	309	-

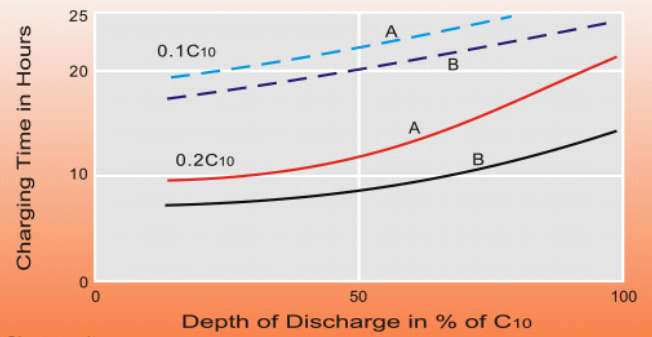
Dimensions

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:

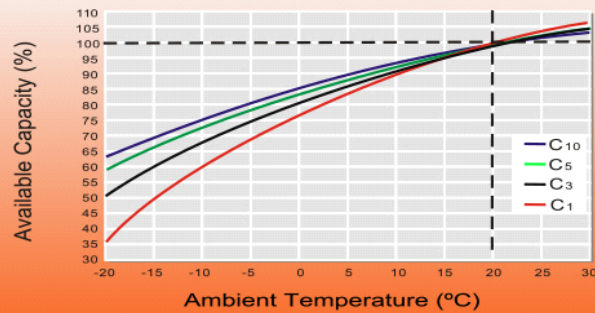
A — 2.25 V/cell

B — 2.40 V/cell

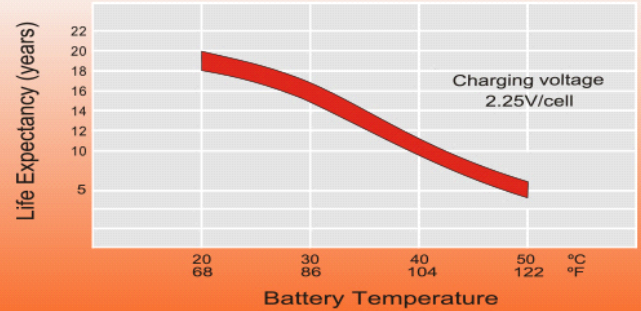
— State of charge 100%

— State of charge 90%

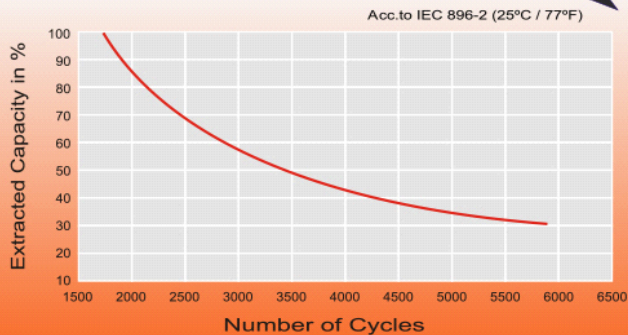
Temperature Effects in Relation to Battery Capacity



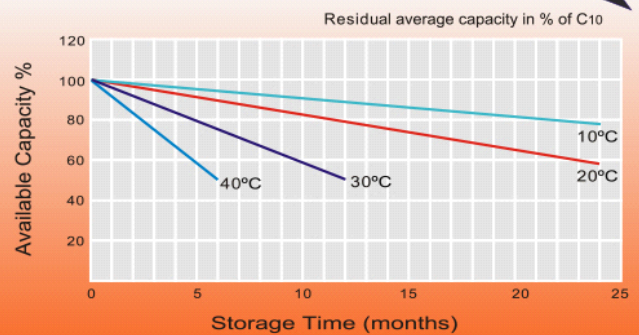
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS Storage Time



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