

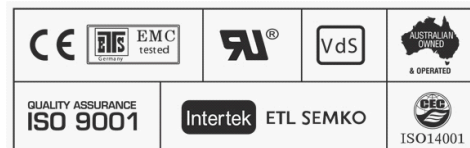
Specifications

Part Number	40PzV200	
Nominal Voltage	2 Volt	
Nominal Capacity (20 HR)	200 AH	
Dimension	Length	103 +/-2mm (4.05 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	355 +/-2mm (13.95 inches)
	Total Height	390 +/-2mm (15.33 inches)
Approx Weight	18 kg (39.67lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	252 AH / 2.52A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	200 AH / 20.0A	(10hr,1.80V/cell, 25°C/77°F)
	175.5 A H / 35.1A	(5hr,1.75V/cell, 25°C/77°F)
	155.7 AH / 51.9A	(3hr,1.75V/cell, 25°C/77°F)
	114.0 AH / 114.0A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Tubular Die-Cast	
Separator Type	Advanced Micro-Pore PVC-SiO2	
Max. Discharge Current	1600A (5s)	
Short Circuit Current	3200	
Internal Resistance	Approx 1.2mΩ	
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 50.0A.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)

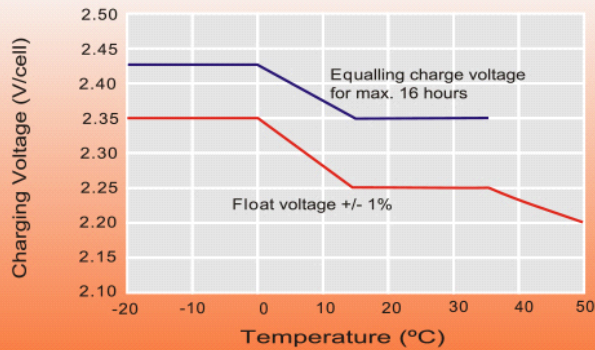
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	171	155	-	122	-	89.7	60.8	46.7	-	31.9	-	22.2	18.7	-
1.80V/cell	-	210	188	-	142	-	101	66.8	50.8	-	34.4	-	23.8	20	-
1.75V/cell	-	248	210	-	152	-	105	68.6	51.9	-	35.1	-	24.2	20.3	-
1.70V/cell	-	279	230	-	161	-	109	70.4	53	-	35.6	-	24.5	20.5	-
1.65V/cell	-	299	242	-	167	-	112	71.9	54	-	36.2	-	24.8	20.8	-
1.60V/cell	-	313	251	-	171	-	114	72.8	54.6	-	36.5	-	25	20.9	-

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	-	318	292	-	233	-	174	118	91.2	-	62.7	-	44.1	37.3	-
1.80V/cell	-	384	348	-	269	-	194	129	98.8	-	67.4	-	47.1	39.7	-
1.75V/cell	-	446	384	-	284	-	201	132	101	-	68.5	-	47.8	40.3	-
1.70V/cell	-	492	413	-	298	-	207	135	102	-	69.3	-	48.3	40.7	-
1.65V/cell	-	519	430	-	307	-	212	137	104	-	70.1	-	48.7	41	-
1.60V/cell	-	532	439	-	311	-	214	138	104	-	70.6	-	49	41.3	-

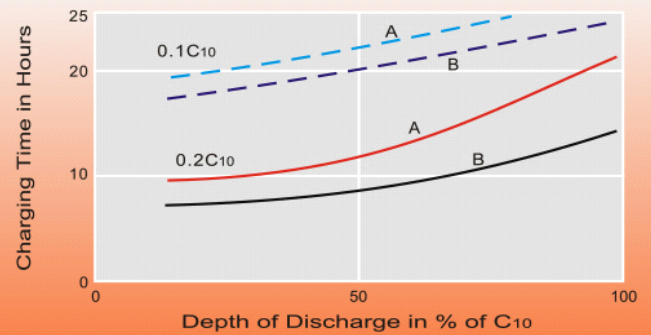
Dimensions

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:

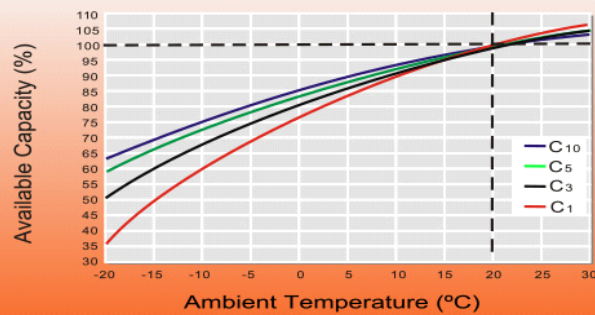
A — 2.25 V/cell

B — 2.40 V/cell

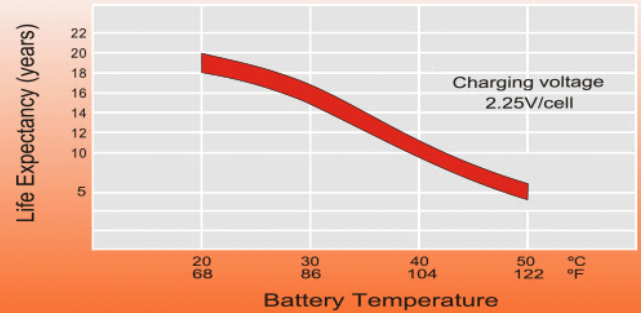
— State of charge 100%

— State of charge 90%

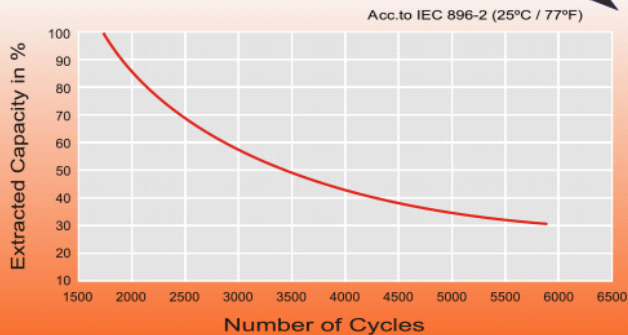
Temperature Effects in Relation to Battery Capacity



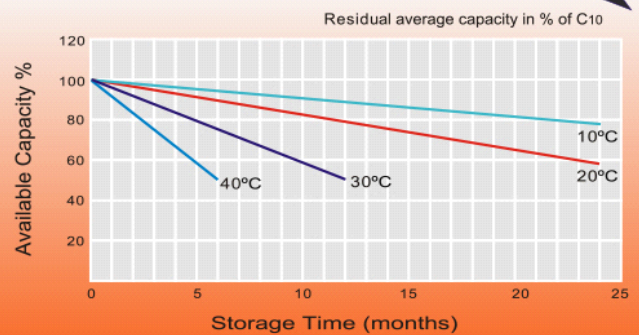
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS Storage Time



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