

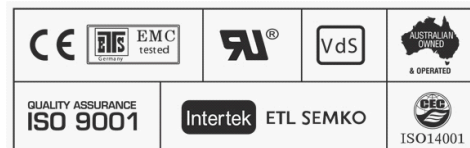
**Specifications**

<b>Part Number</b>	<b>70PzV490</b>	
<b>Nominal Voltage</b>	2 Volt	
<b>Nominal Capacity (20 HR)</b>	490 AH	
<b>Dimension</b>	Length	166 +/-2mm (6.52 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	471 +/-2mm (18.51 inches)
	Total Height	506 +/-2mm (19.89 inches)
<b>Approx Weight</b>	39.0 kg (85.96lbs)	
<b>Terminal</b>	T11	
<b>Terminal Torque</b>	11 - 14.7 Nm	
<b>Container Material</b>	ABS	
<b>Rated Capacity</b>	617.4 AH / 6.17A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	490 AH / 49.0A	(10hr,1.80V/cell, 25°C/77°F)
	426.5 A H / 85.3A	(5hr,1.75V/cell, 25°C/77°F)
	378 AH / 126A	(3hr,1.75V/cell, 25°C/77°F)
	279 AH / 279A	(1hr,1.60V/cell, 25°C/77°F)
<b>Plate Type</b>	Tubular Die-Cast	
<b>Separator Type</b>	Advanced Micro-Pore PVC-SiO8	
<b>Max. Discharge Current</b>	4800A (5s)	
<b>Short Circuit Current</b>	9600	
<b>Internal Resistance</b>	Approx 0.73mΩ	
<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 122.5A.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)**

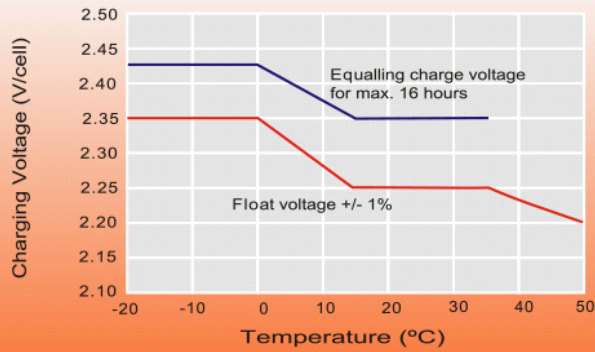
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	384	354	-	289	-	219	147	113	-	77.6	-	54.2	45.9	-
1.80V/cell	-	472	429	-	337	-	247	162	123	-	83.7	-	58	49	-
1.75V/cell	-	559	480	-	359	-	257	166	126	-	85.3	-	59	49.8	-
1.70V/cell	-	627	523	-	380	-	267	170	129	-	86.7	-	59.8	50.3	-
1.65V/cell	-	673	553	-	395	-	274	174	131	-	88	-	60.5	50.9	-
1.60V/cell	-	704	572	-	405	-	279	176	133	-	88.9	-	61	51.2	-

**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	-	714	665	-	552	-	424	286	221	-	153	-	107	91.3	-
1.80V/cell	-	863	794	-	637	-	474	313	240	-	164	-	115	97.3	-
1.75V/cell	-	1003	876	-	672	-	491	320	244	-	167	-	116	98.7	-
1.70V/cell	-	1106	942	-	704	-	506	326	248	-	169	-	118	99.7	-
1.65V/cell	-	1166	980	-	725	-	517	332	252	-	171	-	119	101	-
1.60V/cell	-	1197	1000	-	736	-	523	334	253	-	172	-	120	102	-

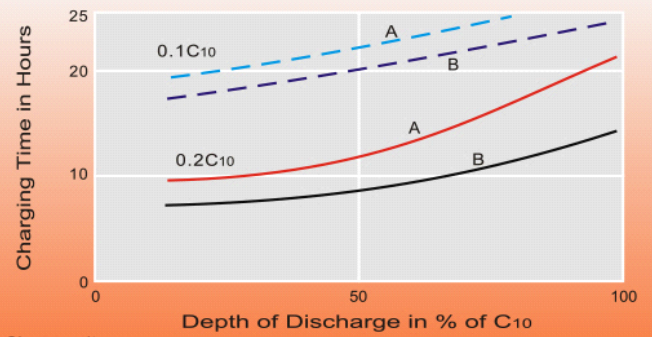
## Dimensions

### 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.

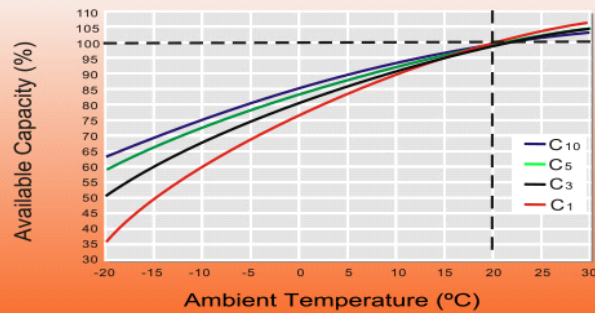
### Charging Characteristics



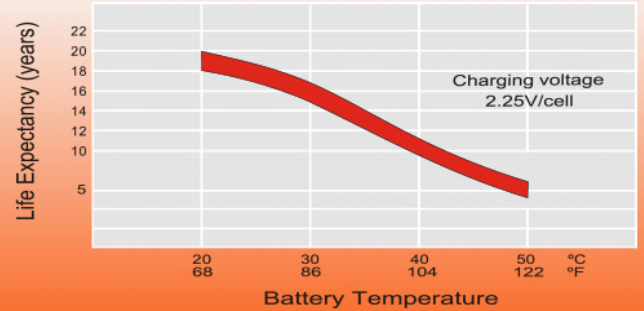
Charge voltage:

A — 2.25 V/cell      B — 2.40 V/cell  
 - - - State of charge 100%      - - - State of charge 90%

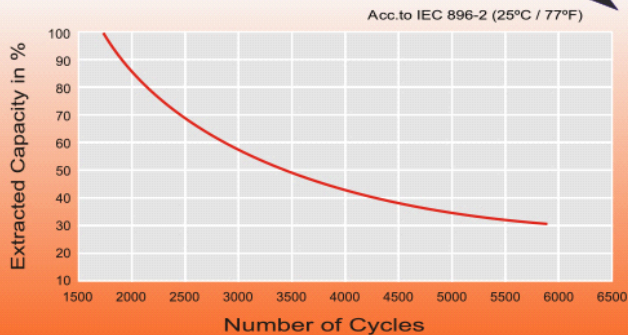
### Temperature Effects in Relation to Battery Capacity



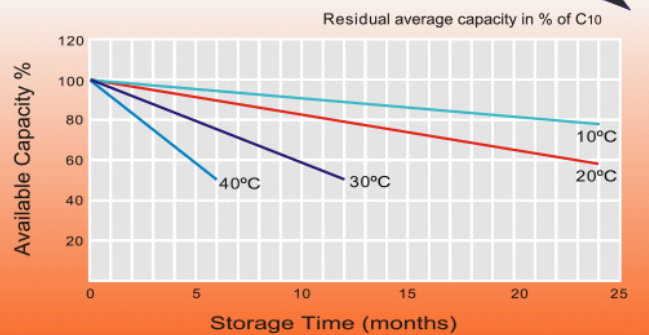
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS Storage Time



## Head Office

Unit 30  
 76 Hume Highway  
 LANSVALE NSW 2166  
 Tel: (02) 9755 7851 Fax: (02) 9755 7852  
 www.fusionagmbatteries.com.au

