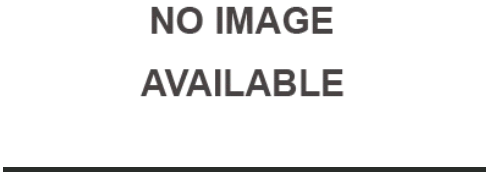
FUSION AGM BATTERIES

2V Solar Batteries - Gel

6OPzV300

Specifications

Part Number	**6OPzV300**	
Nominal Voltage	2 Volt	
Nominal Capacity (20 HR)	300 AH	
Dimension	Length	124 +/-2mm (4.87 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	471 +/-2mm (18.51 inches)
	Total Height	506 +/-2mm (19.89 inches)
Approx Weight	29 kg (63.92lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	441 AH / 4.41A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	350 AH / 35.0A	(10hr,1.80V/cell, 25°C/77°F)
	305 AH / 61.0A	(5hr,1.75V/cell, 25°C/77°F)
	270.4 AH / 90.1A	(3hr,1.75V/cell, 25°C/77°F)
	199 AH / 199A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Tubular Die-Cast	
Separator Type	Advanced Micro-Pore PVC-SiO5	
Max. Discharge Current	2400A (5s)	
Short Circuit Current	5600	
Internal Resistance	Approx 1.0mΩ	
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 75.0A.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)	



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)

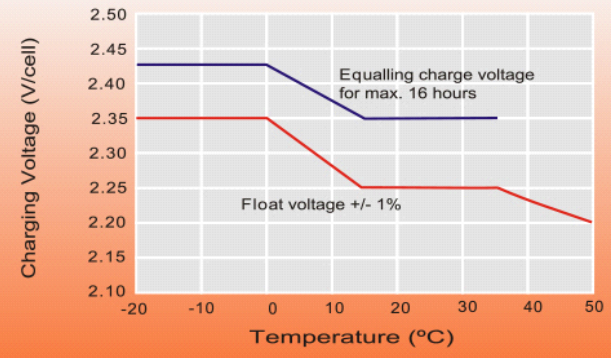
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	256	233	-	183	-	135	91.2	70	-	47.8	-	33.3	28.1	-
1.80V/cell	-	315	282	-	214	-	152	100	76.2	-	51.6	-	35.7	30	-
1.75V/cell	-	373	316	-	228	-	158	103	77.9	-	52.6	-	36.3	30.5	-
1.70V/cell	-	418	344	-	241	-	164	106	79.5	-	53.4	-	36.8	30.8	-
1.65V/cell	-	449	364	-	251	-	168	108	81	-	54.2	-	37.2	31.1	-
1.60V/cell	-	470	377	-	257	-	171	109	81.9	-	54.8	-	37.5	31.4	-

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	-	476	438	-	350	-	260	177	137	-	94.1	-	66.1	55.9	-
1.80V/cell	-	576	522	-	404	-	291	194	148	-	101	-	70.6	59.6	-
1.75V/cell	-	669	577	-	426	-	301	198	151	-	103	-	71.7	60.4	-
1.70V/cell	-	738	620	-	447	-	311	202	153	-	104	-	72.4	61	-
1.65V/cell	-	778	645	-	460	-	317	205	155	-	105	-	73.1	61.5	-
1.60V/cell	-	799	658	-	467	-	321	207	157	-	106	-	73.5	61.9	-

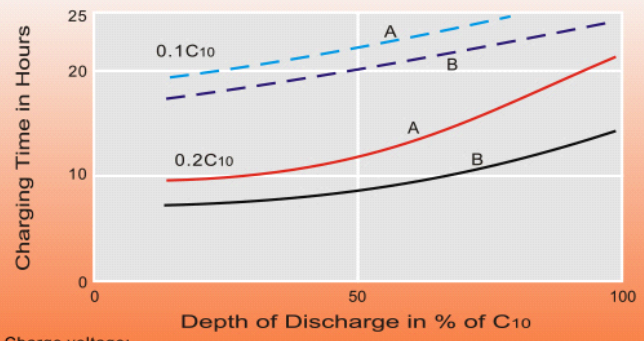
Dimensions

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

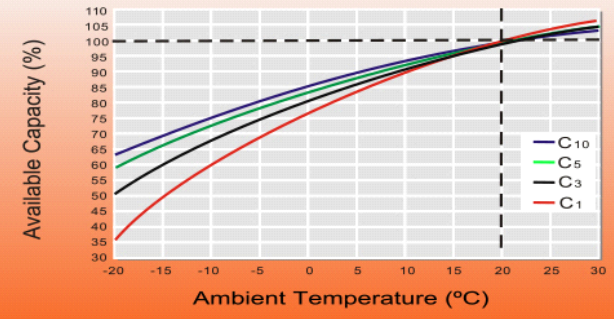


Charge voltage:

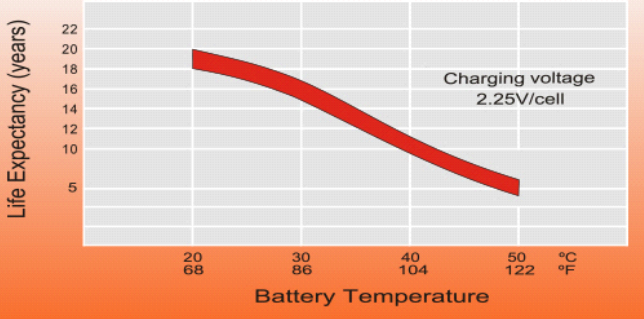
A — 2.25 V/cell B — 2.40 V/cell

State of charge 100% State of charge 90%

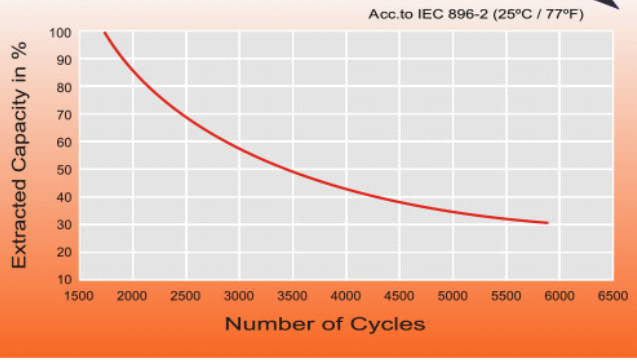
Temperature Effects in Relation to Battery Capacity



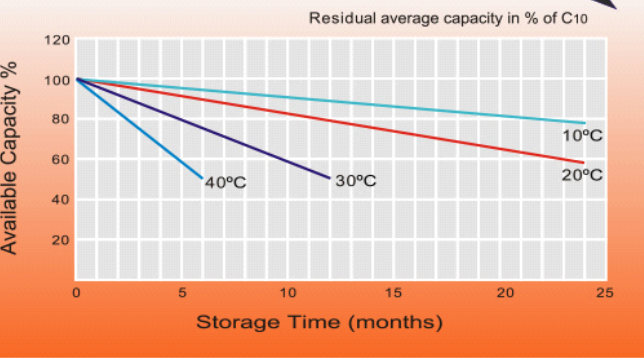
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS Storage Time



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