FUSION AGM BATTERIES

2V Solar Batteries - Gel

5OPzV350

Specifications

Part Number	**5OPzV350**	
Nominal Voltage	2 Volt	
Nominal Capacity (20 HR)	350 AH	
Dimension	Length	145 +/-2mm (5.7 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	355 +/-2mm (13.95 inches)
	Total Height	390 +/-2mm (15.33 inches)
Approx Weight	26 kg (57.3lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	378 AH / 3.78A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	300 AH / 30.0A	(10hr,1.80V/cell, 25°C/77°F)
	263 A H / 52.6A	(5hr,1.75V/cell, 25°C/77°F)
	233.7 AH / 77.9A	(3hr,1.75V/cell, 25°C/77°F)
	171 AH / 171A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Tubular Die-Cast	
Separator Type	Advanced Micro-Pore PVC-SiO4	
Max. Discharge Current	2800A (5s)	
Short Circuit Current	4800	
Internal Resistance	Approx 0.9mΩ	
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 87.5A.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)

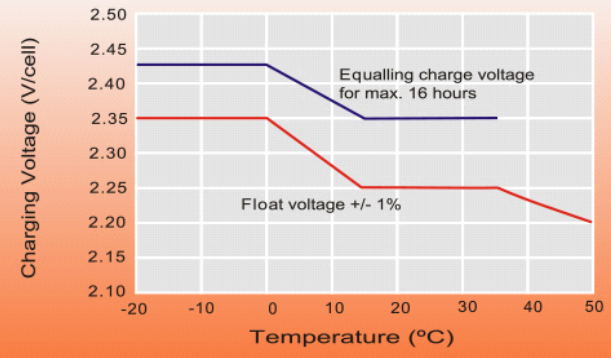
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	274	253	-	206	-	157	105	81	-	55.5	-	38.7	32.8	-
1.80V/cell	-	337	306	-	240	-	176	115	88.1	-	59.8	-	41.4	35	-
1.75V/cell	-	399	343	-	256	-	183	119	90.1	-	61	-	42.1	35.6	-
1.70V/cell	-	448	374	-	271	-	191	122	91.9	-	61.9	-	42.7	36	-
1.65V/cell	-	481	395	-	282	-	196	124	93.6	-	62.9	-	43.2	36.3	-
1.60V/cell	-	503	409	-	289	-	199	126	94.7	-	63.5	-	43.5	36.6	-

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	-	510	475	-	394	-	303	204	158	-	109	-	76.7	65.2	-
1.80V/cell	-	616	567	-	455	-	339	223	171	-	117	-	82	69.5	-
1.75V/cell	-	717	626	-	480	-	350	228	174	-	119	-	83.2	70.5	-
1.70V/cell	-	790	673	-	503	-	362	233	177	-	121	-	84.1	71.2	-
1.65V/cell	-	833	700	-	518	-	369	237	180	-	122	-	84.9	71.8	-
1.60V/cell	-	855	715	-	526	-	373	239	181	-	123	-	85.3	72.2	-

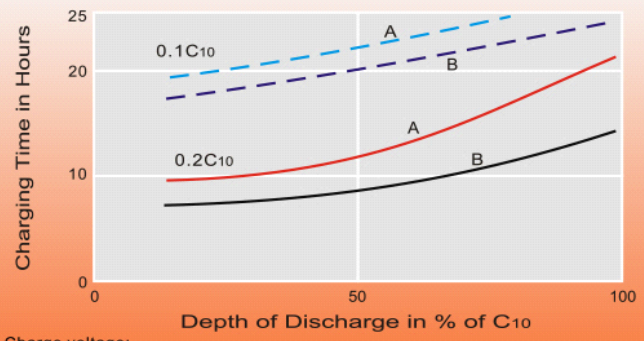
Dimensions

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

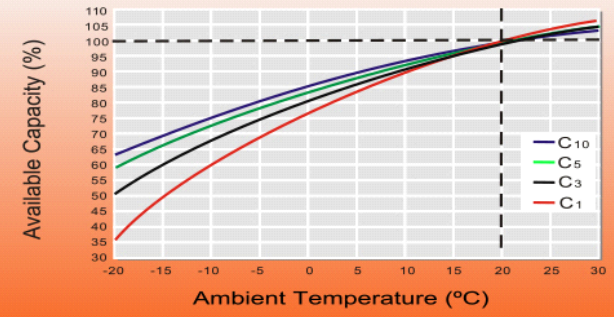


Charge voltage:

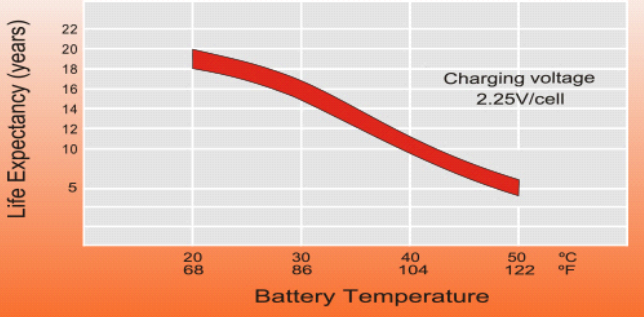
A — 2.25 V/cell B — 2.40 V/cell

State of charge 100% State of charge 90%

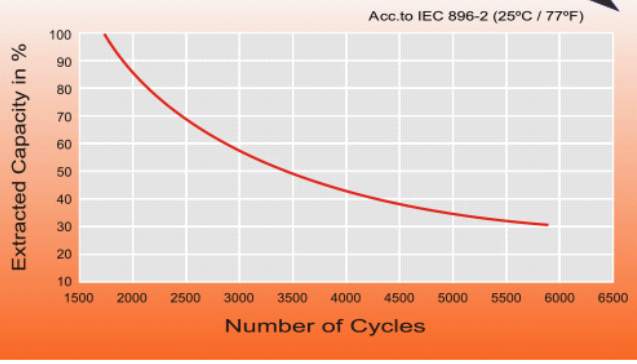
Temperature Effects in Relation to Battery Capacity



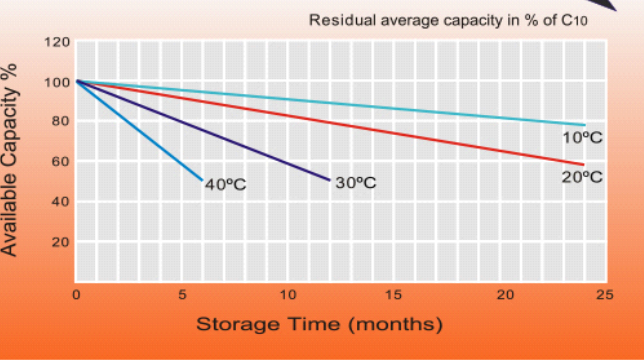
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS Storage Time



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