FUSION AGM BATTERIES

2V Solar Batteries - Gel

6OPzV420

Specifications

Part Number	**6OPzV420**	
Nominal Voltage	2 Volt	
Nominal Capacity (20 HR)	420 AH	
Dimension	Length	145 +/-2mm (5.7 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	471 +/-2mm (18.51 inches)
	Total Height	506 +/-2mm (19.89 inches)
Approx Weight	34 kg (74.94lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	529.2 AH / 5.29A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	420 AH / 42.0A	(10hr,1.80V/cell, 25°C/77°F)
	365.5 A H / 73.1A	(5hr,1.75V/cell, 25°C/77°F)
	324 AH / 108A	(3hr,1.75V/cell, 25°C/77°F)
	239 AH / 239A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Tubular Die-Cast	
Separator Type	Advanced Micro-Pore PVC-SiO6	
Max. Discharge Current	4800A (5s)	
Short Circuit Current	6720	
Internal Resistance	Approx 0.8mΩ	
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 105.0A.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)

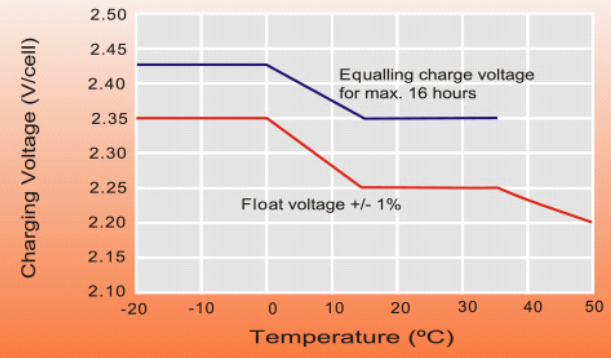
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	329	303	-	248	-	188	126	97.2	-	66.5	-	46.4	39.3	-
1.80V/cell	-	405	367	-	289	-	212	139	106	-	71.8	-	49.7	42	-
1.75V/cell	-	479	411	-	308	-	220	142	108	-	73.1	-	50.6	42.7	-
1.70V/cell	-	537	449	-	326	-	229	146	110	-	74.3	-	51.2	43.2	-
1.65V/cell	-	577	474	-	339	-	235	149	112	-	75.4	-	51.8	43.6	-
1.60V/cell	-	604	490	-	347	-	239	151	114	-	76.2	-	52.3	43.9	-

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	-	612	570	-	473	-	363	245	190	-	131	-	92	78.2	-
1.80V/cell	-	740	680	-	546	-	407	268	206	-	141	-	98.4	83.4	-
1.75V/cell	-	860	751	-	576	-	420	274	209	-	143	-	99.8	84.6	-
1.70V/cell	-	948	808	-	604	-	434	280	213	-	145	-	101	85.4	-
1.65V/cell	-	1000	840	-	621	-	443	284	216	-	146	-	102	86.2	-
1.60V/cell	-	1026	857	-	631	-	448	286	217	-	147	-	102	86.6	-

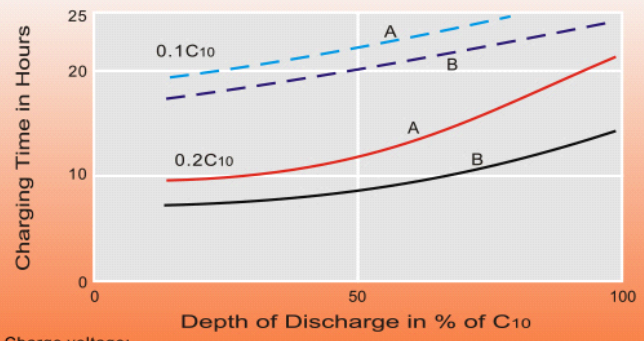
Dimensions

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

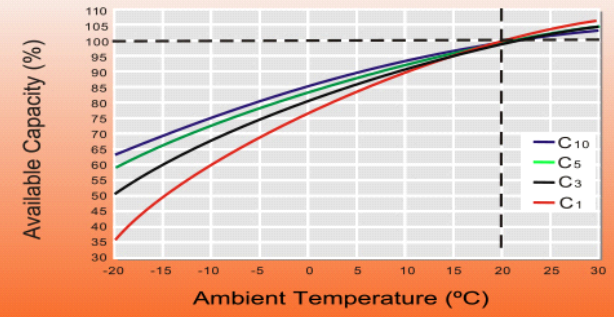


Charge voltage:

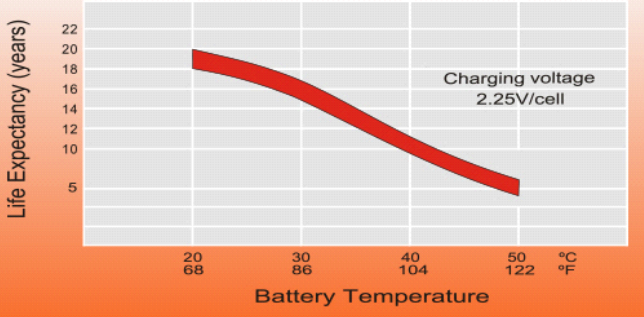
A — 2.25 V/cell B — 2.40 V/cell

State of charge 100% State of charge 90%

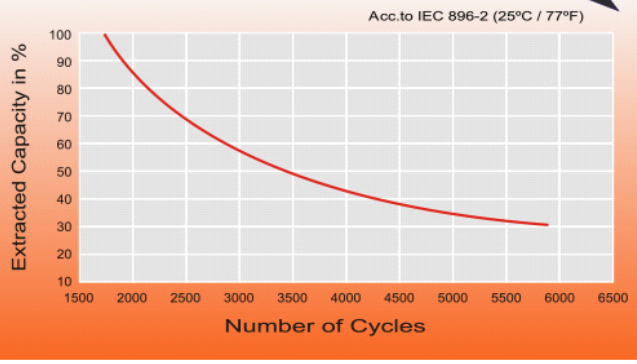
Temperature Effects in Relation to Battery Capacity



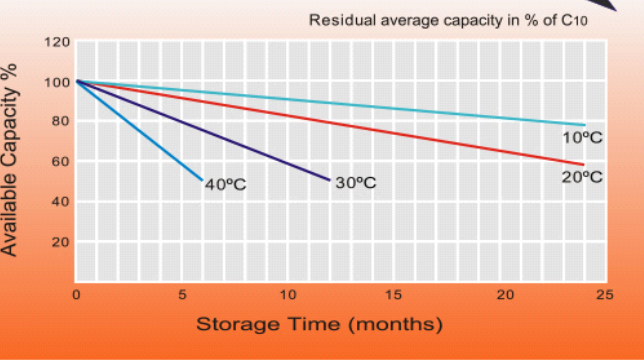
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS Storage Time



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