FUSION AGM BATTERIES

2V Solar Batteries - Gel

6OPzV600

Specifications

Part Number	**6OPzV600**	
Nominal Voltage	2 Volt	
Nominal Capacity (20 HR)	600 AH	
Dimension	Length	145 +/-2mm (5.7 inches)
	Width	206 +/-2mm (8.1 inches)
	Container Height	646 +/-2mm (25.39 inches)
	Total Height	681 +/-2mm (26.76 inches)
Approx Weight	46 kg (101.38lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	756 AH / 7.56A	(100hr ,1.80V/cell, 25°C/77°F)
	-	(20hr ,1.80V/cell, 25°C/77°F)
	600 AH / 60.0A	(10hr,1.80V/cell, 25°C/77°F)
	520 A H / 104A	(5hr,1.75V/cell, 25°C/77°F)
	456 AH / 152A	(3hr,1.75V/cell, 25°C/77°F)
	341 AH / 341A	(1hr,1.60V/cell, 25°C/77°F)
Plate Type	Tubular Die-Cast	
Separator Type	Advanced Micro-Pore PVC-SiO7	
Max. Discharge Current	4800A (5s)	
Short Circuit Current	7840	
Internal Resistance	Approx 0.62mΩ	
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 150.0A.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

CE EMC tested · VdS · Australian Owned & Operated · Quality Assurance ISO 9001 · Intertek ETL SEMKO · ISO14001

Constant Current Discharge (Amperes) at 25°C (77°F)

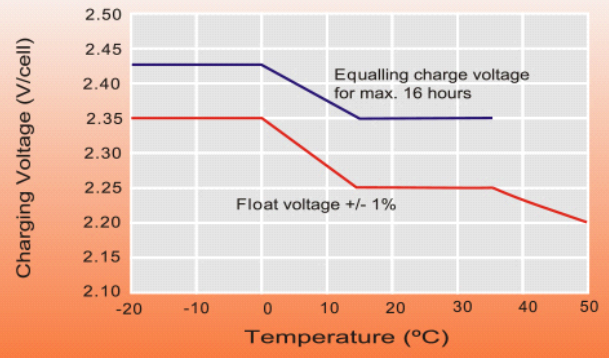
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	409	389	-	335	-	267	177	137	-	94.2	-	65.8	56.2	-
1.80V/cell	-	503	470	-	390	-	301	195	149	-	102	-	70.5	60	-
1.75V/cell	-	595	526	-	416	-	313	200	152	-	104	-	71.7	60.9	-
1.70V/cell	-	668	574	-	440	-	325	205	156	-	105	-	72.6	61.6	-
1.65V/cell	-	717	607	-	458	-	335	209	158	-	107	-	73.5	62.3	-
1.60V/cell	-	750	628	-	469	-	341	212	160	-	108	-	74.1	62.7	-

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	-	761	730	-	640	-	517	344	268	-	185	-	130	112	-
1.80V/cell	-	919	871	-	738	-	578	376	290	-	199	-	139	119	-
1.75V/cell	-	1069	962	-	779	-	598	385	295	-	202	-	141	121	-
1.70V/cell	-	1178	1034	-	816	-	617	393	300	-	205	-	143	122	-
1.65V/cell	-	1243	1076	-	840	-	631	399	304	-	207	-	144	123	-
1.60V/cell	-	1276	1098	-	853	-	637	402	306	-	208	-	145	124	-

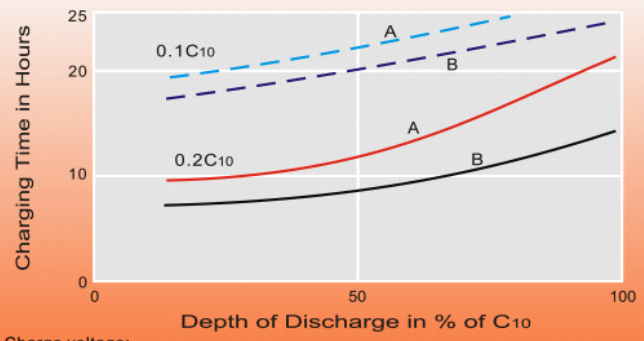
Dimensions

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

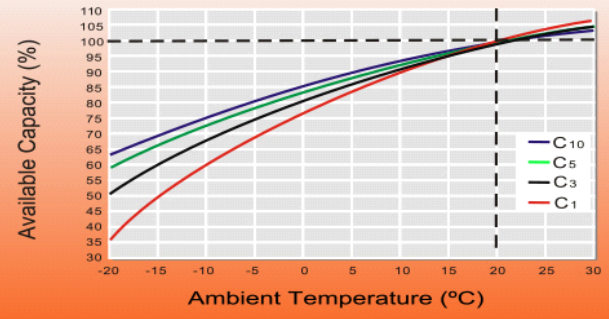


Charge voltage:

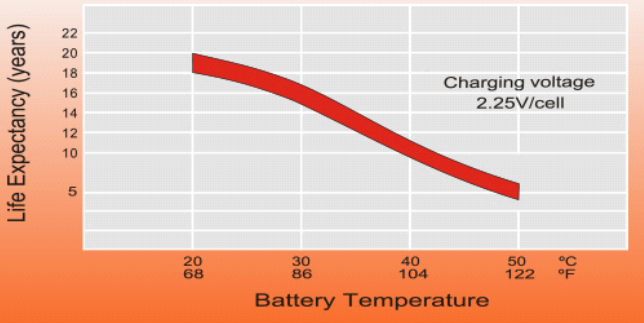
A — 2.25 V/cell B — 2.40 V/cell

State of charge 100% State of charge 90%

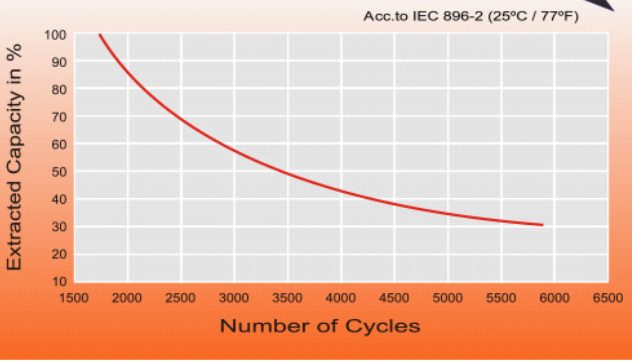
Temperature Effects in Relation to Battery Capacity



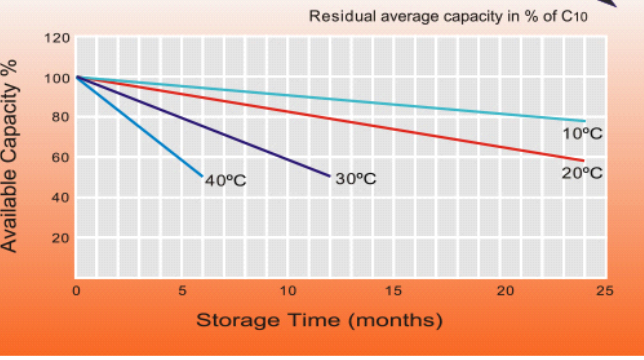
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS Storage Time



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