



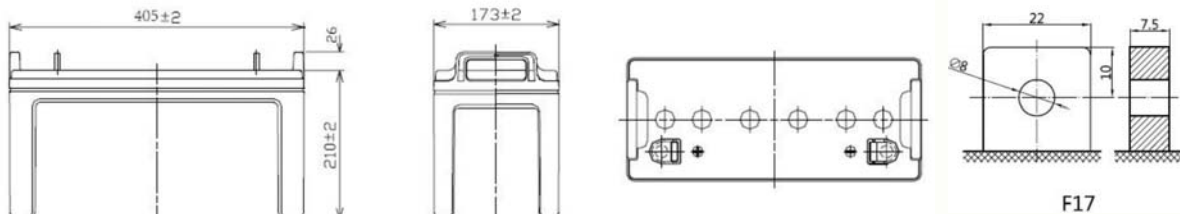
SolAir World's Gel standard battery is designed for a general purpose by SolAir World International. 6FM120G is a general purpose battery up to 8 years in star service or more than 260 cycles at 100% discharge in cycle service. As with all SolAir World's batteries, all are rechargeable highly efficient, leak proof and maintenance free.

Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	120Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(35.0±3% kg) (77.16lbs)
Maximum Discharge Current	1200A(5sec)
Internal Resistance	Approx. 4.7mΩ full charged @25°C
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Nominal Operating Temperature Range	25°C±3°C
Float Charging Voltage	13.7~13.9VDC/unit Average @25°C
Maximum Charging Current	36A
Equalization and Cycle Service	14.4V~15.0VDC/unit Average @ 25°C
Self Discharge	SolAir World's Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3%per month at 25°C. Please charge batteries before using.
Terminal	Terminal F17
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



Dimensions: L405*W173*H210(TH237)mm



Constant Current Discharge Characteristics (A, 25 °C)

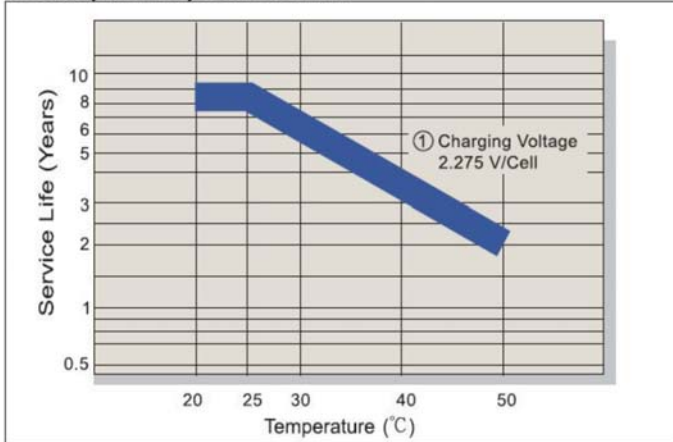
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	364	300	236	143.4	79.3	47.7	35.9	23.0	14.86	12.38	6.50
9.90	353	291	231	140.5	77.7	47.4	35.7	22.9	14.79	12.32	6.47
10.2	345	285	226	137.6	76.1	47.0	35.4	22.7	14.73	12.27	6.44
10.5	325	276	219	133.3	73.7	46.5	35.0	22.5	14.68	12.24	6.42
10.8	298	268	215	130.7	72.3	46.0	34.7	22.2	14.64	12.20	6.41

Constant Power Discharge Characteristics (Watt, 25 °C)

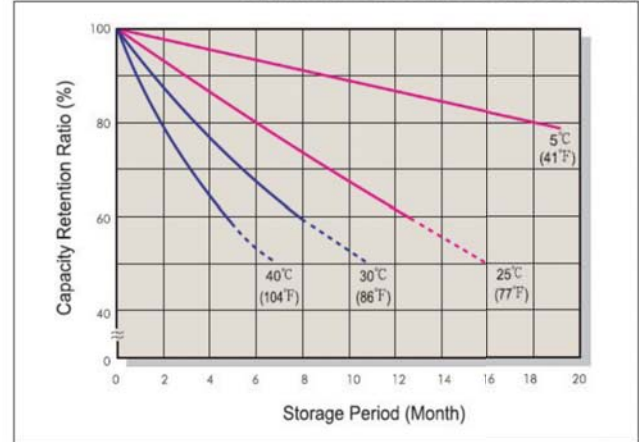
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3926	3277	2616	1608	904	552	422	272	178.3	147.9	78.0
9.90	3809	3179	2536	1576	886	549	420	271	177.4	147.1	77.6
10.2	3730	3113	2485	1544	868	544	416	268	176.7	146.5	77.3
10.5	3514	3015	2407	1496	841	538	412	266	176.2	146.1	77.1
10.8	3220	2927	2360	1467	824	533	408	263	175.7	145.7	76.9

Solar Battery 6FM120G A (12V120Ah)

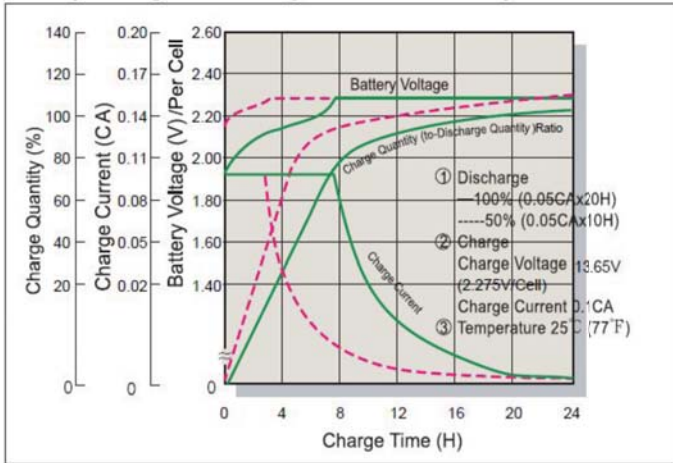
Trickle (or Float) Service Life



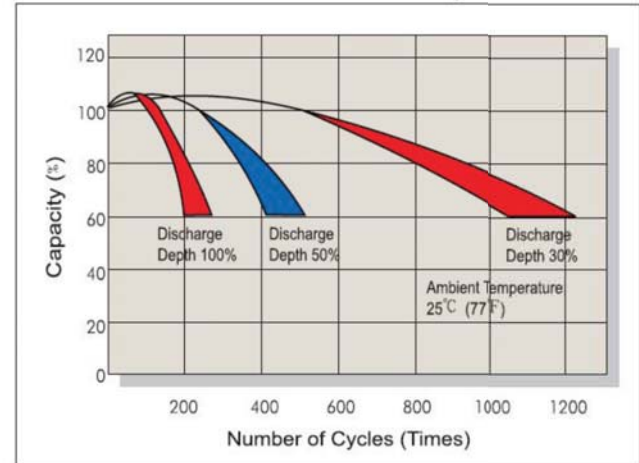
Capacity Retention Characteristic



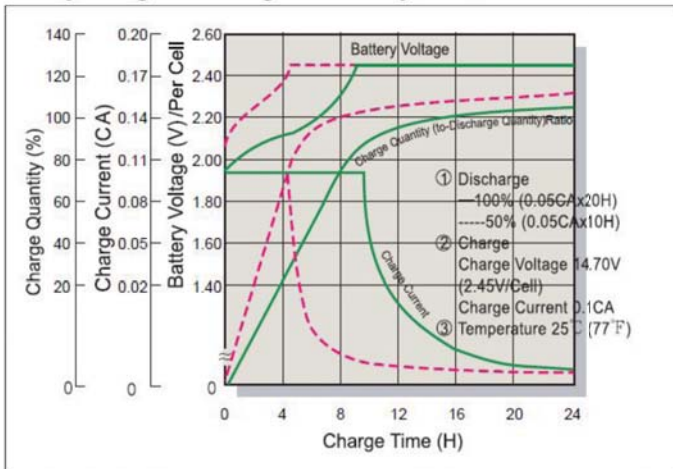
Battery Voltage and Charge Time for Standby Use



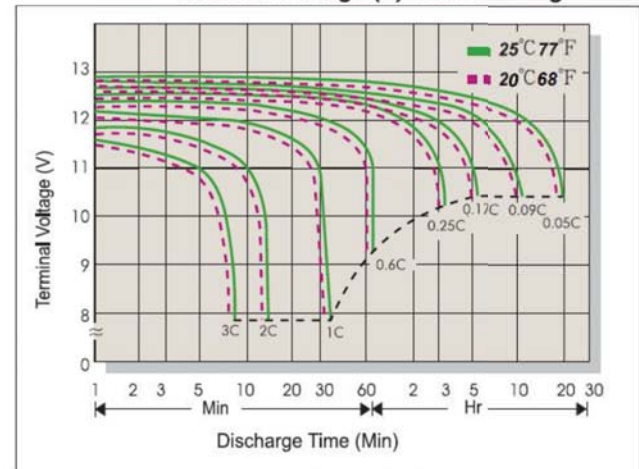
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40-2.50	0.25C
Standby	25°C(77°F)	2.275	2.25-2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C > (A)	0.2C < (A)	0.5C < (A)	(A) > 1.0C