



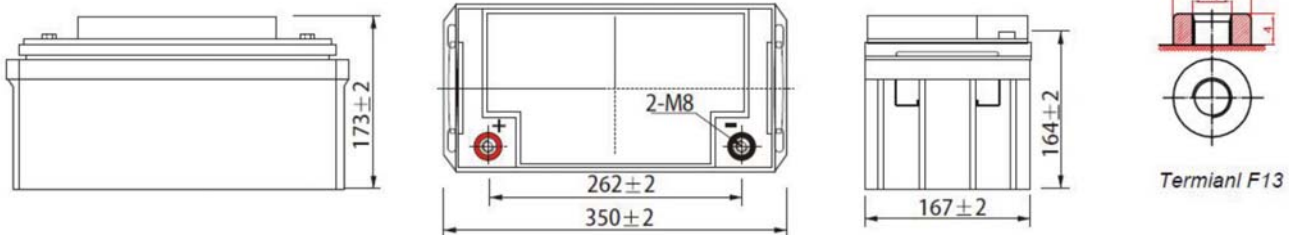
**SolAir World's Gel** standard battery is designed for a general purpose by SolAir World International. 6FM60G is a general purpose battery up to 8 years in star service or more than 260 cycles at 100% discharge in cycle service. As with all **SolAir World's** batteries, all are rechargeable highly efficient, leak proof and maintenance free.

**Specifications:**

Cells per Unit	6
Normal Voltage	12V
Capacity	60Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(20±3%) kg (44.09lbs)
Maximum Discharge Current	600A(5sec)
Internal Resistance	Approx. 5.8mΩ 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	19.5A
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 F13
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



**Dimensions:** L350\*W166\*H175(TH175)mm



**Constant Current Discharge Characteristics (A; 25°C)**

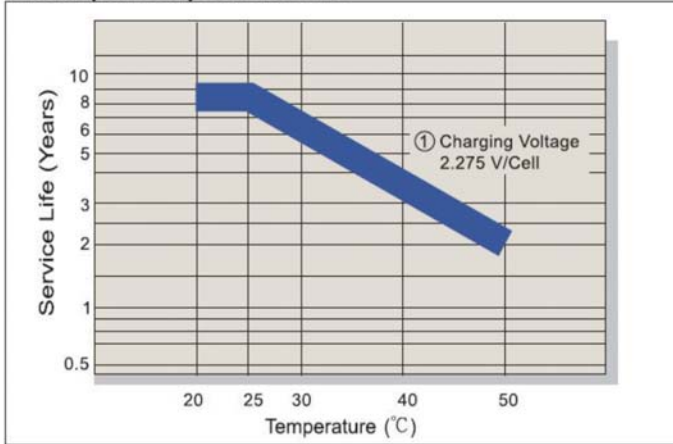
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	179	148	116	70.5	39.0	23.4	17.7	11.3	7.31	6.09	3.20
9.90	173	143	114	69.1	38.2	23.3	17.6	11.3	7.27	6.06	3.18
10.2	170	140	111	67.7	37.4	23.1	17.4	11.2	7.24	6.04	3.17
10.5	160	136	108	65.6	36.3	22.9	17.2	11.0	7.22	6.02	3.16
10.8	147	132	106	64.3	35.6	22.6	17.1	10.9	7.20	6.00	3.15

**Constant Power Discharge Characteristics (Watt, 25°C)**

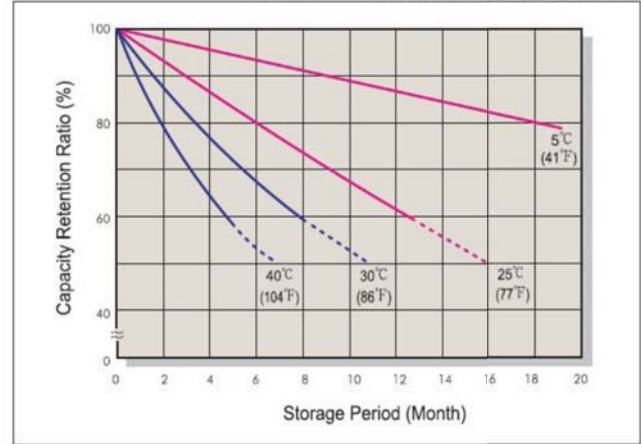
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	1931	1612	1287	791	445	272	208	134	87.7	72.7	38.4
9.90	1873	1563	1247	775	436	270	207	133	87.3	72.4	38.2
10.2	1834	1531	1222	759	427	267	205	132	86.9	72.1	38.0
10.5	1728	1483	1184	736	413	265	203	131	86.7	71.9	37.9
10.8	1583	1439	1161	721	405	262	201	129	86.4	71.6	37.8

# Solar Battery 6FM60G (12V60Ah)

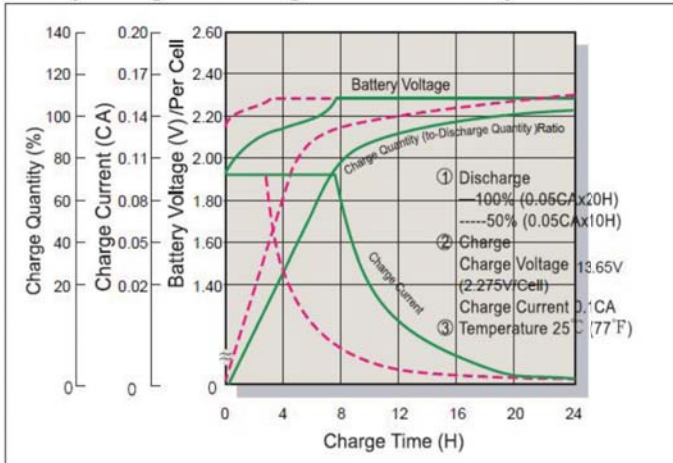
**Trickle (or Float) Service Life**



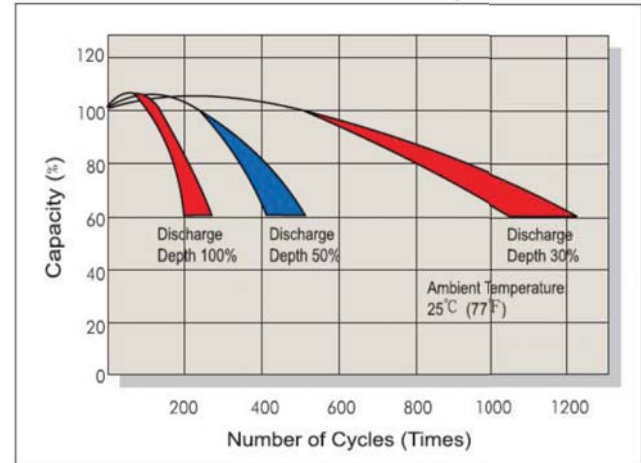
**Capacity Retention Characteristic**



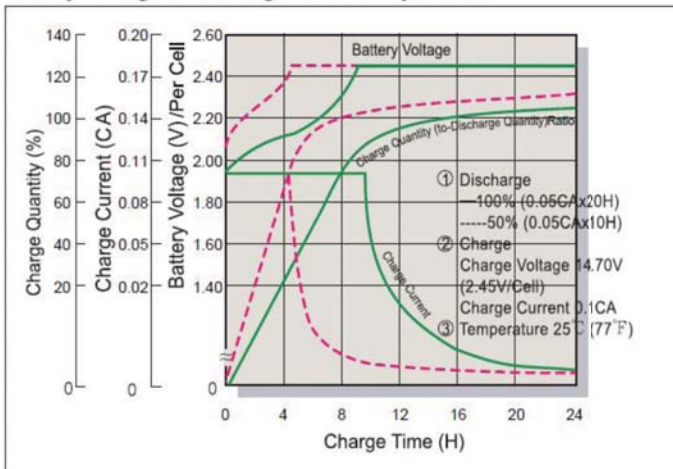
**Battery Voltage and Charge Time for Standby Use**



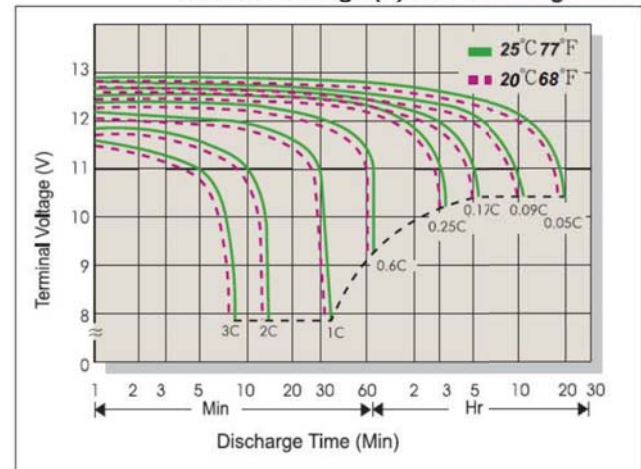
**Cycle Service Life**



**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