



SolAir World's Gel standard battery is designed for a general purpose by SolAir World International. 6FM150G 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	150Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(44.5±3% kg) (98.11lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 4mΩ full charged @25°C(77°F)
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(77°F±5°F)
Float Charging Voltage	13.7~13.9VDC/unit Average @25°C(77°F)
Maximum Charging Current	45A
Equalization and Cycle Service	14.4V~15.0VDC/unit Average @ 25°C(77°F)
Self Discharge	SolAir World's Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C(77°F). Self-discharge ratio less than 3%per month at 25°C(77°F). Please charge batteries before using.
Terminal	Terminal F18
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



ISO 9001:2008 Standard



ISO 14001:2004 Standard



MH46789



Dimensions: L483*W170*H241(TH241)



Constant Current Discharge Characteristics (A, 25 °C)

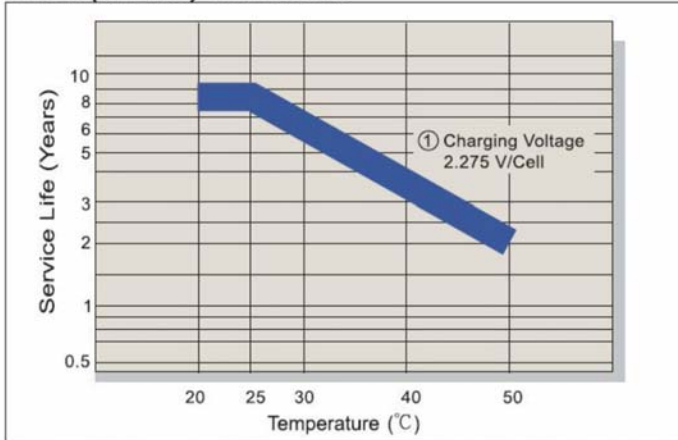
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	465	345	281	159	97.5	54.8	38.8	27.4	18.3	15.2	7.99
9.90	450	334	273	155	95.1	54.3	38.5	27.2	18.2	15.2	7.97
10.2	442	328	269	153	93.6	54.0	38.3	27.0	18.1	15.1	7.92
10.5	428	317	261	148	90.7	53.5	37.9	26.7	18.1	15.0	7.90
10.8	415	308	256	145	88.9	52.9	37.5	26.5	18.0	15.0	7.88

Constant Power Discharge Characteristics (Watt, 25 °C)

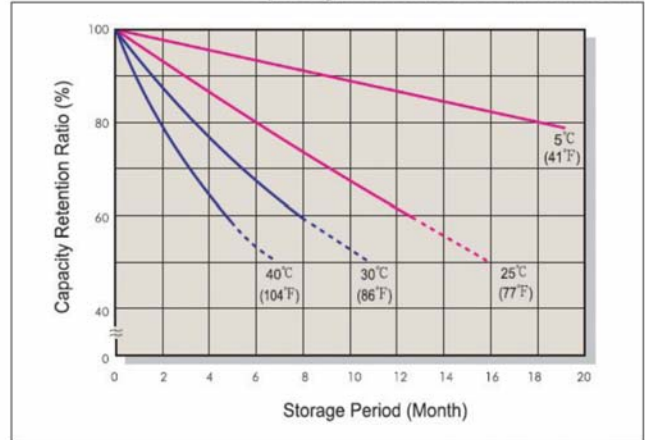
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	4966	3830	3198	1784	1112	635	457	324	219	182	95.9
9.90	4861	3707	3118	1739	1084	629	453	321	219	181	95.6
10.2	4771	3638	3070	1713	1067	625	450	319	217	180	95.1
10.5	4620	3523	2974	1659	1034	619	445	316	217	180	94.8
10.8	4485	3420	2916	1627	1014	613	441	313	216	179	94.5

Solar Battery 6FM150G (12V150Ah)

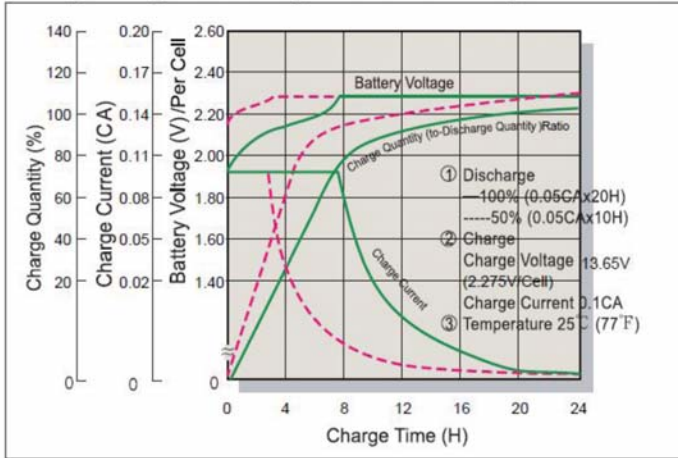
Trickle (or Float) Service Life



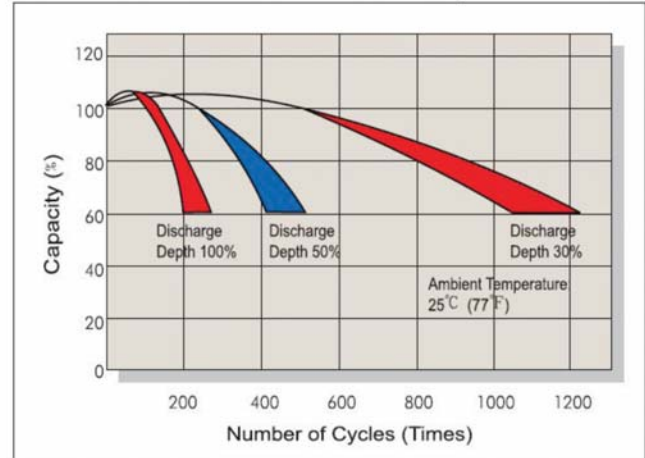
Capacity Retention Characteristic



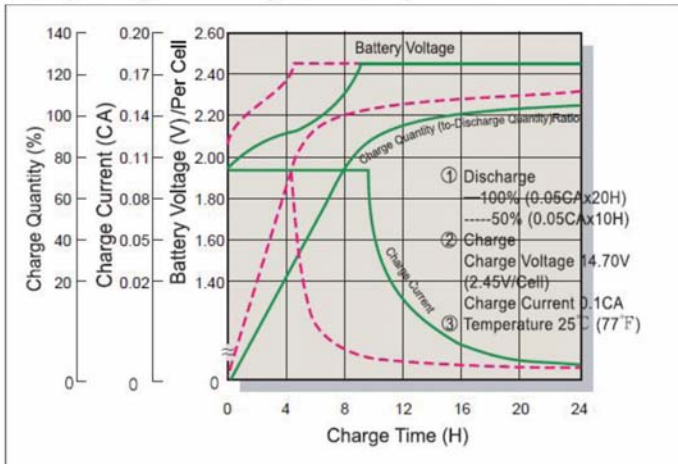
Battery Voltage and Charge Time for Standby Use



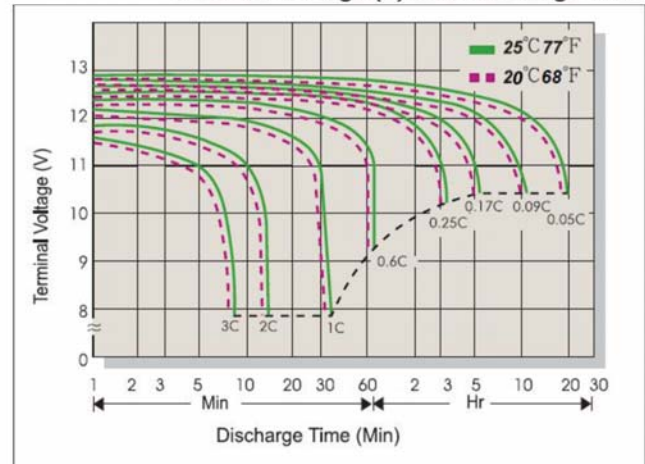
Cycle Service Life



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