



## 6FM24 (12V24Ah)

**KAIYING®** Standard battery is design for a general purpose by KaiYing Power. 6FM24 is a general purpose battery up to 8 years in float service . As with all **KAIYING®** batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



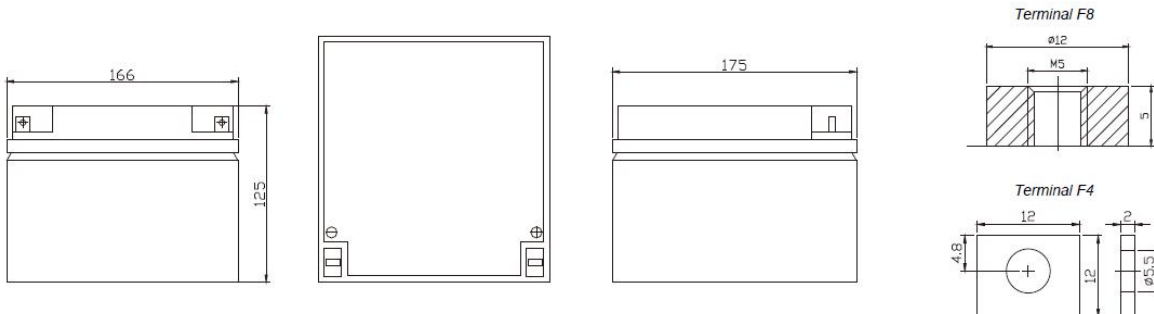
ISO 14001:2004 Standard



**Specifications:**

Cells per Unit	6
Normal Voltage	12V
Capacity	24Ah@10hr-rate to 1.80V per cell@25°C
Weight	Approx.(7.76±3%) kg
Maximum Discharge Current	240A(5sec)
Internal Resistance	Approx. 14mΩ full charged @25°C
Operating Temperature Range	Discharge: -15°C~50°C Charge: -15°C~40°C Storage: -15°C~40°C
Nominal Operating Temperature Range	25°C±3°C
Float Charging Voltage	13.6~13.8VDC/unit Average @25°C
Maximum Charging Current	6.0A
Equalization and Cycle Service	14.4V~15.0VDC/unit Average @ 25°C
Self Discharge	KAIYING 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	F8 F4
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

**Dimensions:** L175\*W166\*H126(TH126)



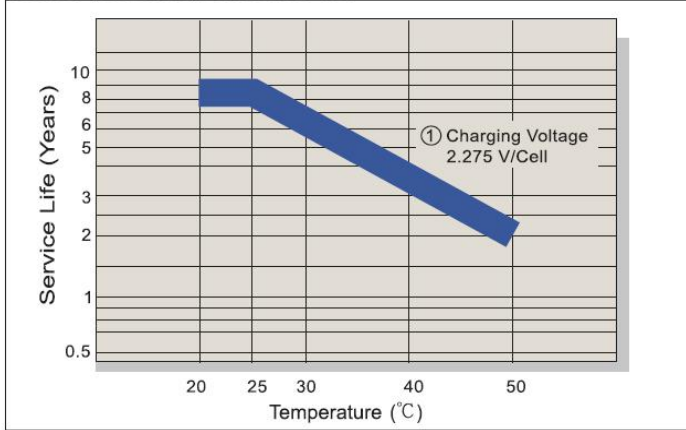
**Constant Current Discharge Characteristics (A, 25 °C)**

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
9.60	89.4.	56.4	44.7	26.4	15.6	12.07	8.53	6.09	4.14	2.66	2.44	1.32
9.90	86.7	54.9	43.6	25.7	15.2	11.84	8.48	6.06	4.12	2.65	2.44	1.32
10.2	84.9	53.6	42.9	25.3	15.0	11.7	8.40	6.00	4.08	2.64	2.42	1.31
10.5	82.3	52.0	41.6	24.6	14.5	11.41	8.32	5.94	4.04	2.63	2.41	1.30
10.8	79.8	50.4	40.8	24.1	14.2	11.22	8.23	5.88	4.00	2.61	2.4	1.30

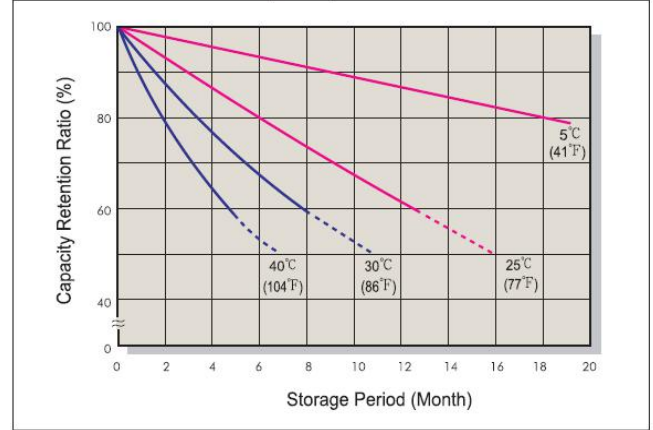
**Constant Power Discharge Characteristics (Watt, 25 °C)**

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
9.60	970	637	510	303	181	140.5	100	72.3	49.4	31.9	28.9	15.6
9.90	967	617	497	295	176	137.65	99.3	72.0	49.2	31.8	28.9	15.6
10.2	947	605	489	290	173	135.65	98.3	71.3	48.7	31.7	28.7	15.5
10.5	916	586	473	281	168	132.65	97.3	70.6	48.2	31.6	28.6	15.4
10.8	890	568	464	276	165	130.65	96.3	69.9	47.7	31.4	28.5	15.4

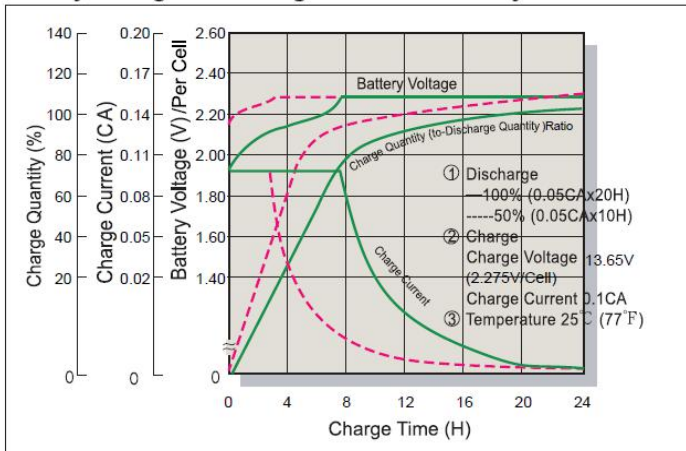
**Trickle (or Float) Service Life**



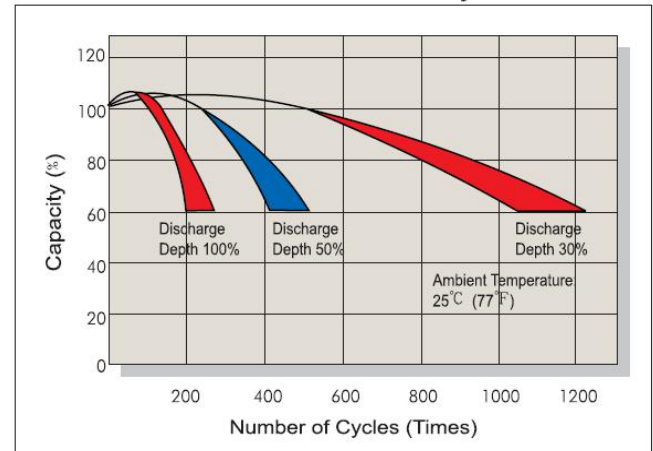
**Capacity Retention Characteristic**



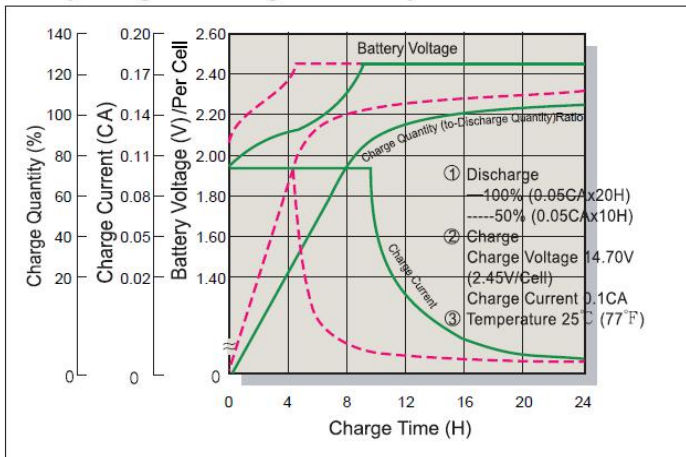
**Battery Voltage and Charge Time for Standby Use**



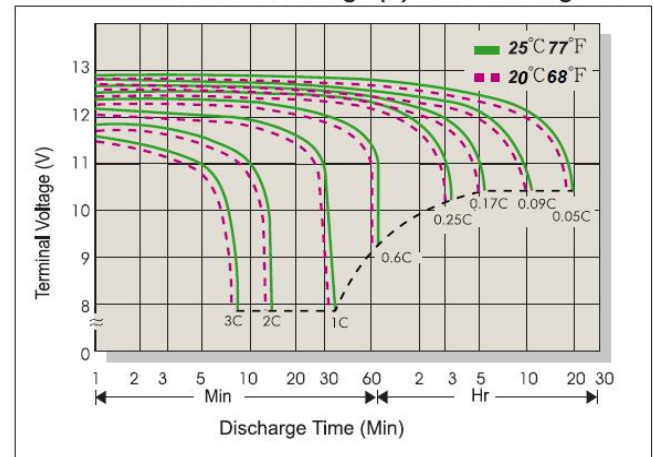
**Cycle Service Life**



**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

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