



## 6FM35G (12V35Ah)

**LONGWAY®** Standard battery is design for a general purpose by KaiYing Power. 6FM35G is a general purpose battery up to 8 years in floate service or more than 260 cycles at 100% discharge in cycle service. As with all **LONGWAY®** batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



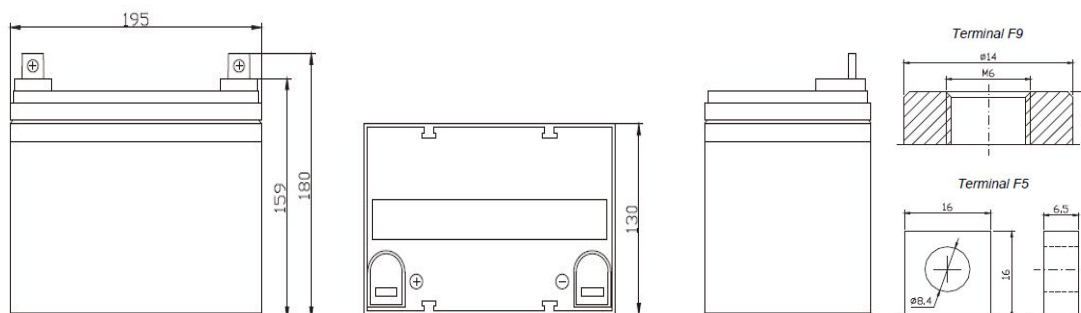
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	35Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(10.5±3%) kg (23.15lbs)
Maximum Discharge Current	350A(5sec)
Internal Resistance	Approx. 8.5mΩ 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	8.75A
Equalization and Cycle Service	14.4V~15.0VDC/unit Average @ 25°C
Self Discharge	LONGWAY 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 F9
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

### Dimensions: L195\*W130\*H161(TH166)mm



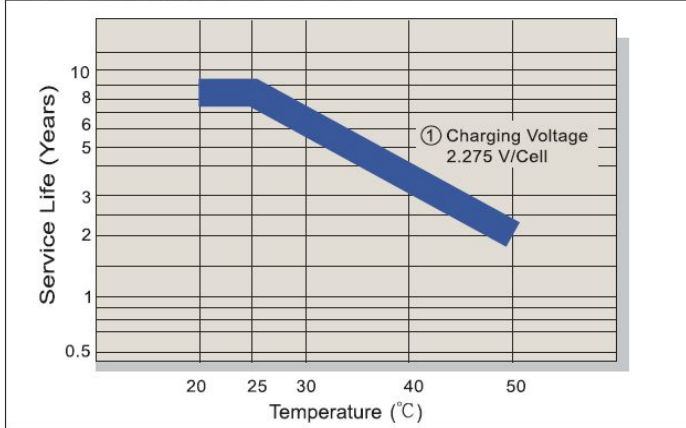
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	104.3	86.1	67.6	41.1	22.8	13.7	10.3	6.6	4.26	3.55	1.87
9.90	101.2	83.5	66.3	40.3	22.3	13.6	10.3	6.6	4.24	3.54	1.86
10.2	99.1	81.8	64.9	39.5	21.8	13.5	10.2	6.5	4.23	3.52	1.85
10.5	93.3	79.2	62.9	38.2	21.2	13.3	10.0	6.4	4.21	3.51	1.84
10.8	85.5	76.9	61.7	37.5	20.7	13.2	9.9	6.4	4.20	3.50	1.84

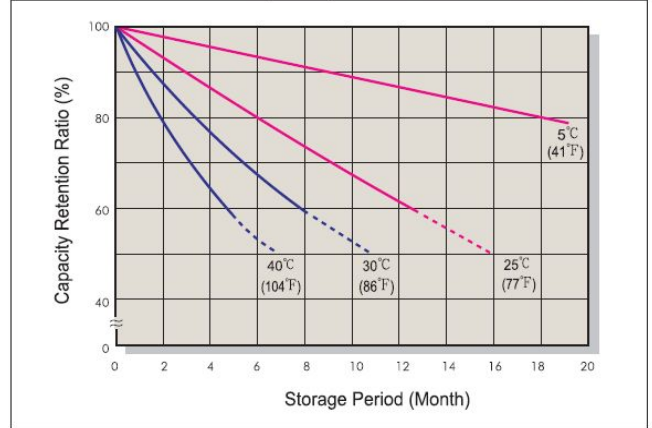
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	1126	940	751	461	259	158	121	78	51.2	42.4	22.4
9.90	1093	912	728	452	254	158	121	78	50.9	42.2	22.3
10.2	1070	893	713	443	249	156	119	77	50.7	42.0	22.2
10.5	1008	865	690	429	241	154	118	76	50.6	41.9	22.1
10.8	924	840	677	421	237	153	117	75	50.4	41.8	22.1

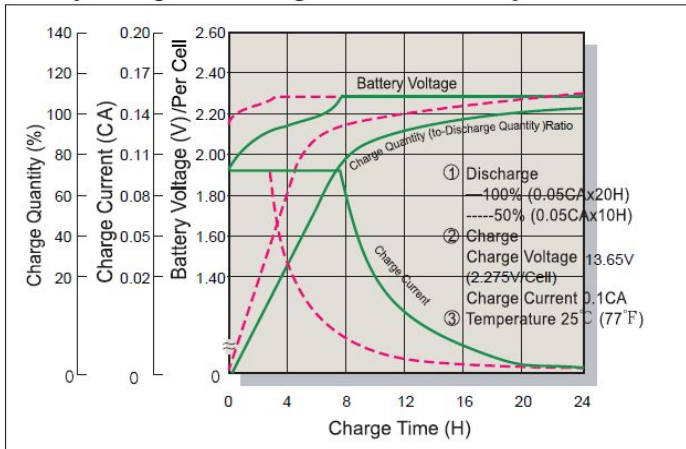
### Trickle (or Float) Service Life



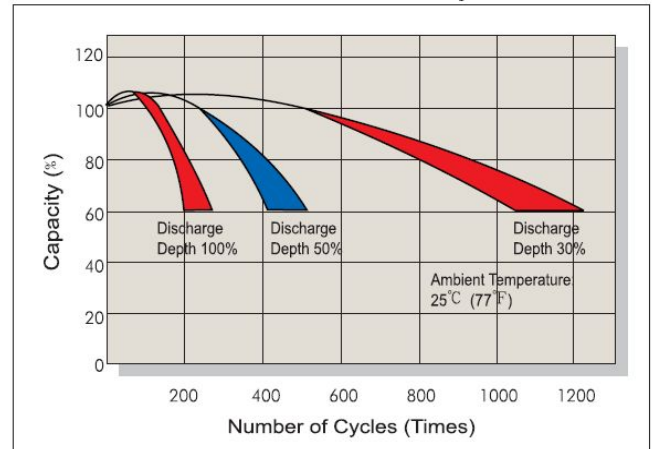
### Capacity Retention Characteristic



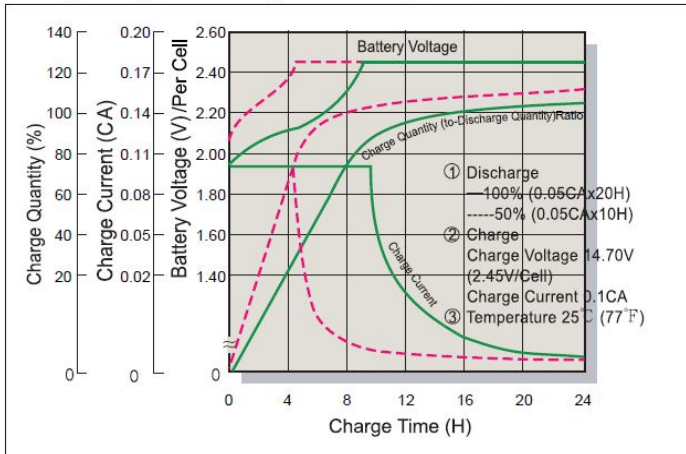
### Battery Voltage and Charge Time for Standby Use



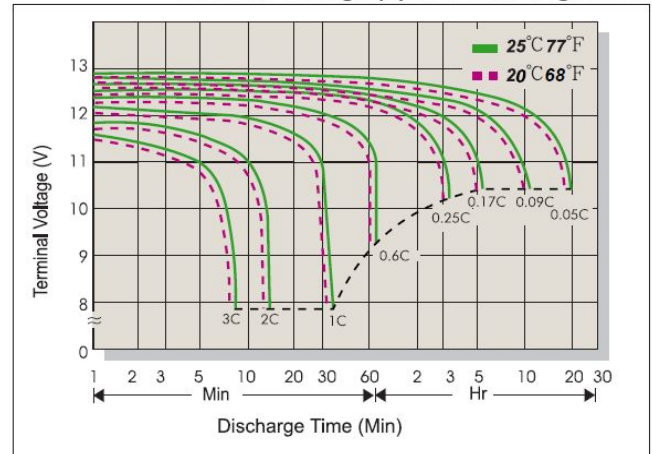
### Cycle Service Life



### 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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