



6FM28 (12V28.0Ah)

6FM28 is a general purpose battery with 5 years life in standby service, or more than 260 cycles at 100% D.O.D by cyclic use. As with all QiangJun batteries, all FM models are rechargeable, highly efficient, leak proof and maintenance free.

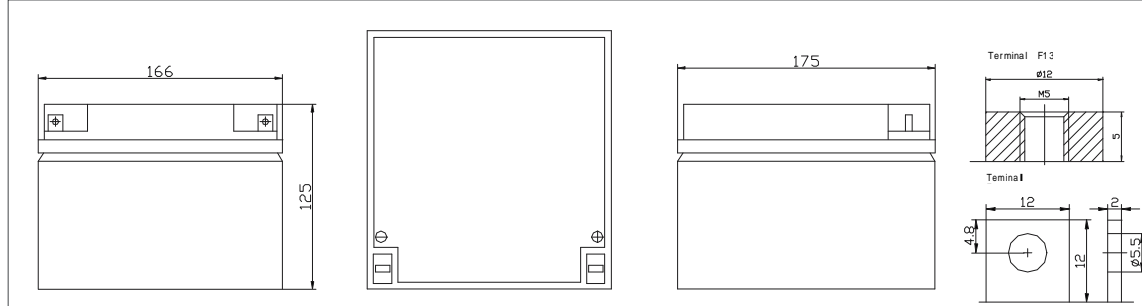


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	28.0Ah @20hr-rate to 1.75V per cell @ 25 C
Weight	Approx. 9.2 Kg
Max. Discharge Current	280 A (5 sec) A
Internal Resistance	pprox. 9 m
Operating Temperature Range	Discharge: -20 C~60 C Charge: 0°C~50°C St orage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	8.4 A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C
Self Discharge	QiangJun batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Faston F3/F13
Container Material	A. B. S. (UL94-HB) Flammability resistance of UL94-V2 can be available upon request.



Dimensions



Constant Current Discharge Characteristics Unit: A(25°C)

F.V/Time	5 MIN	10 MIN	15 MIN	30	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
1.60V	116	77.7	59.7	32.8	19.4	11.6	7.17	5.88	4.73	3.47	2.74	1.54
1.67V	109	72.5	56.1	32.3	19.3	11.6	7.14	5.85	4.70	3.47	2.72	1.48
1.70V	103	70.3	54.9	32.1	19.2	11.5	7.11	5.82	4.68	3.47	2.69	1.46
1.75V	93.0	65.7	52.0	31.4	18.9	11.4	7.08	5.80	4.65	3.47	2.66	1.40
1.80V	83.0	61.3	49.1	30.6	18.6	11.2	7.03	5.77	4.62	3.44	2.60	1.34
1.85V	73.2	56.8	46.3	29.8	18.4	11.0	6.97	5.74	4.59	3.44	2.58	1.32

Constant Power Discharge Characteristics Unit: W(25°C)

F.V/Time	5 MIN	10 MIN	15 MIN		1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
1.60V	224	146	118	65.7	38.8	23.3	14.3	11.7	11.1	6.97	5.46	3.05
1.67V	210	140	112	64.6	38.7	23.1	14.3	11.7	11.0	6.97	5.40	2.94
1.70V	206	136	110	64.2	38.6	23.1	14.3	11.7	11.0	6.92	5.35	2.88
1.75V	186	130	104	62.7	38.0	22.7	14.2	11.6	11.0	6.89	5.29	2.77
1.80V	166	122	98.2	61.2	37.4	22.4	14.1	11.5	10.9	6.86	5.21	2.69
1.85V	146	113	92.5	59.7	36.7	22.1	13.9	11.4	10.9	6.86	5.12	2.60

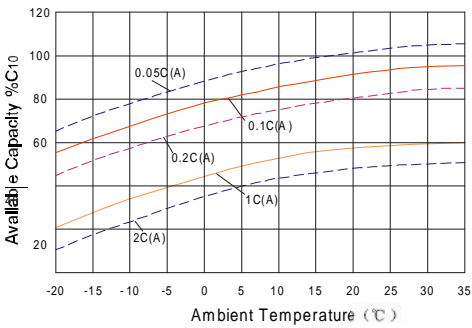
All mentioned values are average values.

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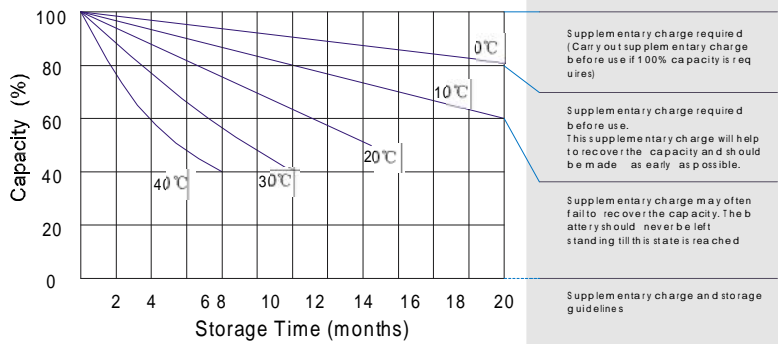
12V28.0Ah



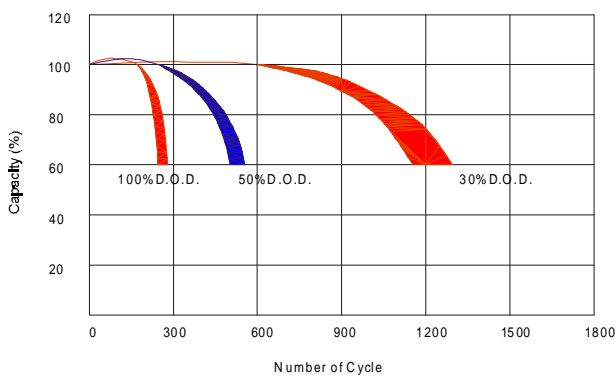
Temperature effects curve



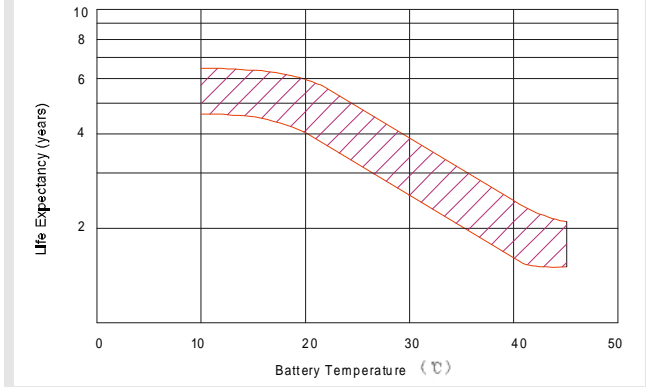
Storage characteristic



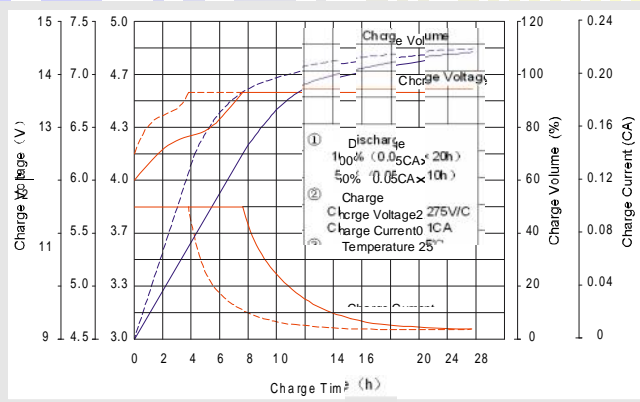
Life characteristics of cyclic use



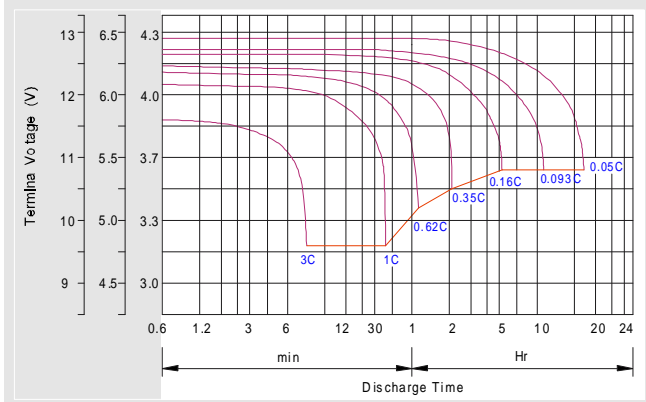
Effect of Temperature on long term float life



Charge characteristic curve for standby use



Discharge characteristic curve



Charging Procedures

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	14.7	14.4~15.0	0.3C
Standby	25°C	13.7	13.6~13.8	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) <	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h +14.4~15.0V,24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h +0.1CAx12h
Fast	-0.2Cx2h +0.3CAx4h

Charging Procedures(6V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	7.35	7.25~7.45	0.3C
Standby	25°C	6.85	6.8~6.9	0.3C

QIANGJING BATTERY CO.,LTD
 Mudan Road Xiacheng Town,
 Yuefang Distrct,
 Xiangtan City, Hunan P.R.China