General Purpose VRLA Battery FC6-12

GENERAL FEATURES

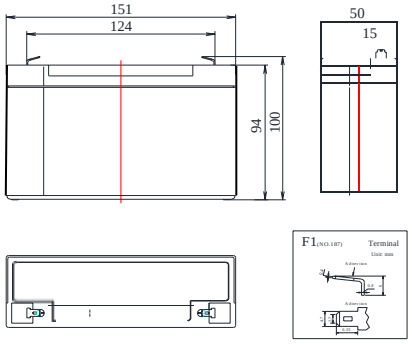
- □ Environmentally friendly
- □ Can be used at vertical or horizontal orientation
- □ High Reliability and Good Quality
- □ High gas recombination efficiency
- □ High Power Density
- □ Maintenance-Free Operation

APPLICATIONS

- □ UPS & EPS
- □ Emergency lighting Systems
- □ Medical Equipment
- □ Cable TV Systems
- □ Alarm Systems
- □ Electric Test Equipment
- □ Security Systems

DIMENSIONS & WEIGHT

Length(mm)	151±1
Width(mm)	50±1
Heighth(mm)	94±1
Total Heighth(mm)	100±1
Weight(kg)	1.72±3%



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19639	UL 1989

TECHNICAL SPECIFICATIONS

Nominal Voltage		6V(3 cells per unit)
Design Floating Life @25℃		5 Years
Nominal Capacity @25℃(20 hour rate@0.600A,10.50V)		12.00Ah
Capacity @25℃	10 hour rate (1.13A,10.8V)	11.30Ah
	5 hour rate (2.14A,10.5V)	10.70Ah
	1 hour rate (7.83A,9.6V)	7.83Ah
Internal Resistance	Full Charged Battery@25℃	≤8.0mΩ
Ambient Temperature	Discharge	-20℃~50℃
	Charge	-20℃~50℃
	Storage	-20℃~50℃
Max.Discharge Current@25℃ Short circuit current		180.0A(5s) 240A
Capacity affected by Temperature (10 hr Capacity)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-Discharge@20-25℃ per Month		3%
Charge (Constant Voltage) @25℃	Floating Charge	Initial Charging Current Less than 3.60A Voltage 13.6-13.8V
	Cycle Charge	Initial Charging Current Less than 3.60A Voltage 14.4-14.9V

BATTERY DISCHARGE TABLE

Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	47.90	31.41	23.06	13.69	9.98	7.83	4.95	3.39	2.26	1.52	1.20	0.634
1.67V	45.63	30.10	22.56	13.46	9.82	7.58	4.87	3.33	2.23	1.49	1.18	0.622
1.70V	43.71	28.46	22.25	13.28	9.69	7.34	4.77	3.27	2.18	1.46	1.17	0.612
1.75V	41.66	27.14	21.07	12.84	9.44	7.11	4.68	3.21	2.14	1.45	1.15	0.600
1.80V	38.47	25.28	19.66	12.33	9.13	6.91	4.51	3.09	2.06	1.40	1.13	0.593

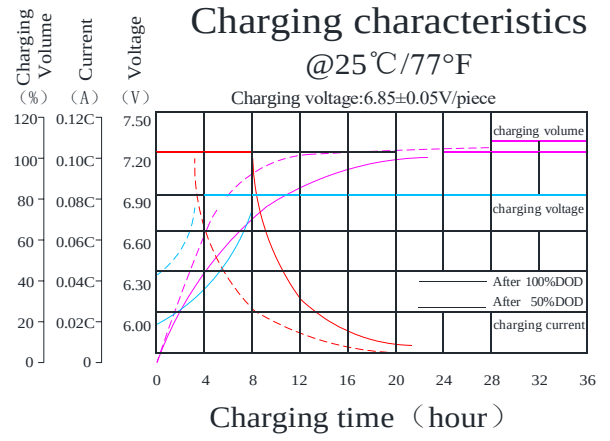
Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	89.19	60.27	44.57	26.62	19.47	15.41	9.72	6.69	4.48	3.03	2.41	1.265
1.67V	85.47	57.83	43.71	26.25	19.22	14.88	9.55	6.57	4.40	2.99	2.39	1.246
1.70V	81.96	54.70	43.22	25.95	19.03	14.35	9.37	6.45	4.33	2.94	2.37	1.231
1.75V	78.51	52.23	41.01	25.17	18.57	13.82	9.20	6.33	4.24	2.92	2.33	1.205
1.80V	73.20	48.85	38.33	24.24	18.00	13.29	8.83	6.08	4.08	2.84	2.30	1.200

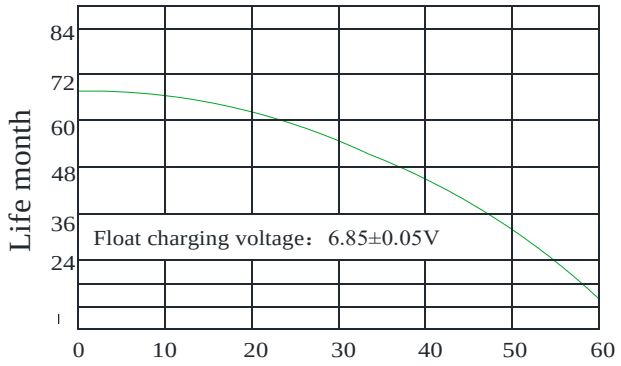
Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact MCA for the latest information.

PERFORMANCE CHARACTERISTICS

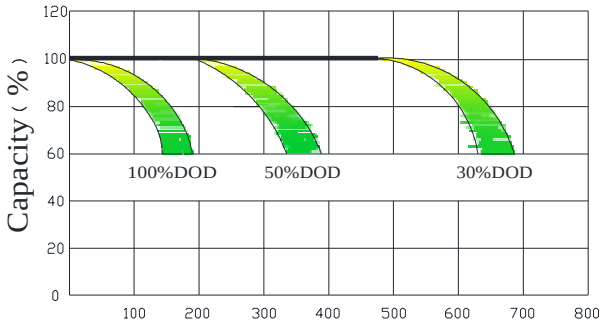
Charging characteristics
@25℃/77°F



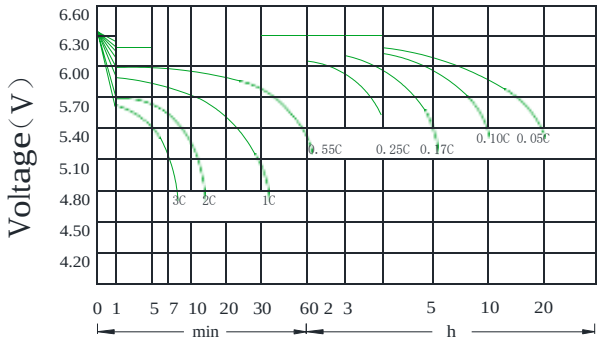
Temperature effect on Design Service life



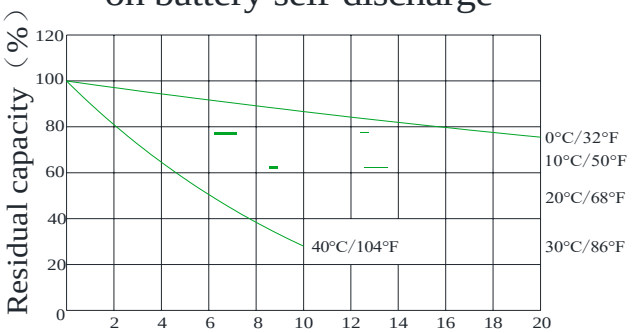
Cycle life vs.Depth of discharge
@25°C/77°F



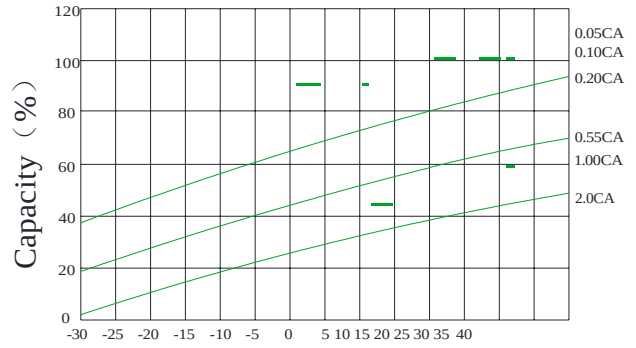
Discharge characteristics(@25℃/77°F)



Temperature effect on battery self-discharge



Temperature effect on capacity



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container &Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn lowCa grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert (F1/F2)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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