



General Purpose Gel VRLA Battery

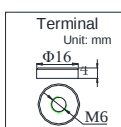
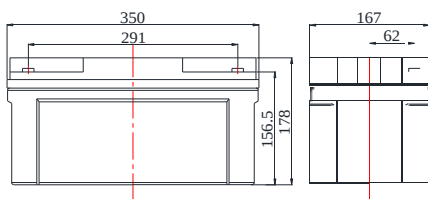
FCG12-65AT

GENERAL FEATURES

- Environmentally friendly
- Wide operating temperature range
- Nano gel electrolyte and long
- Floating service Life
- Can be used at vertical or horizontal orientation
- High Power Density
- Low self discharge

DIMENSIONS & WEIGHT

Length(mm)	350±1
Width(mm)	166±1
Height(mm)	178±1
Total Height(mm)	178±1
Weight(kg)	20.3±3%



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T1360	BS6290 part4
GB/T 19638	UL 1989

APPLICATIONS

- Telecom Control Equipments
- UPS systems
- Communication Equipments
- Medical Equipments
- Emergency Power Systems
- Security Systems
- Cable TV
- Railway System



TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		12 Years
Nominal Capacity @25°C(10 hour rate@6.50A,10.80V)		65Ah
Capacity @25°C	20 hour rate (3.48A,10.5V)	69.6Ah
	5 hour rate (11.4A,10.5V)	57.0Ah
	1 hour rate (41.5A,9.6V)	41.5Ah
Internal Resistance	Full Charged Battery@25°C	≤7.2mΩ
Ambient Temperature	Discharge	-30°C~60°C
	Charge	-30°C~60°C
	Storage	-30°C~60°C
Max.Discharge Current@25°C		650A(5s)
Short circuit current		900A
Capacity affected by Temperature (10 hr Capacity)	40°C	108%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@20-25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 16.25A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 16.25A Voltage 14.4-14.9V

BATTERY DISCHARGE TABLE

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

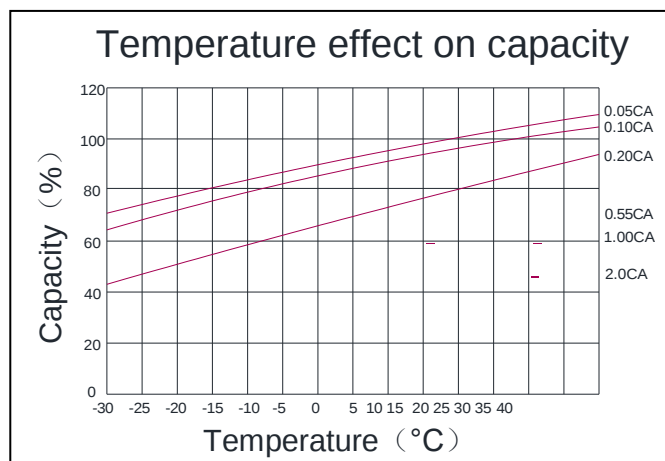
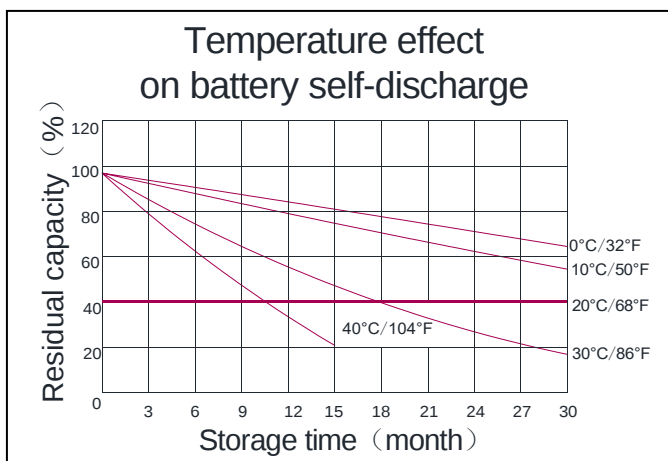
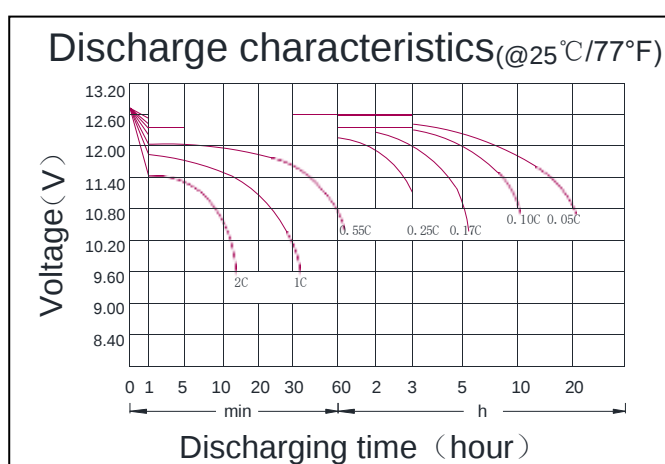
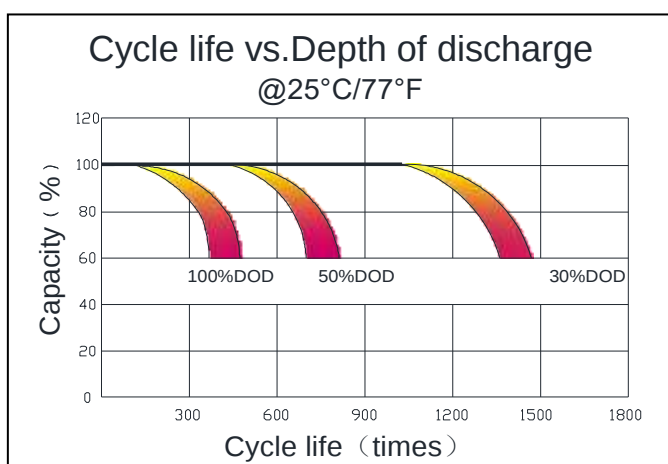
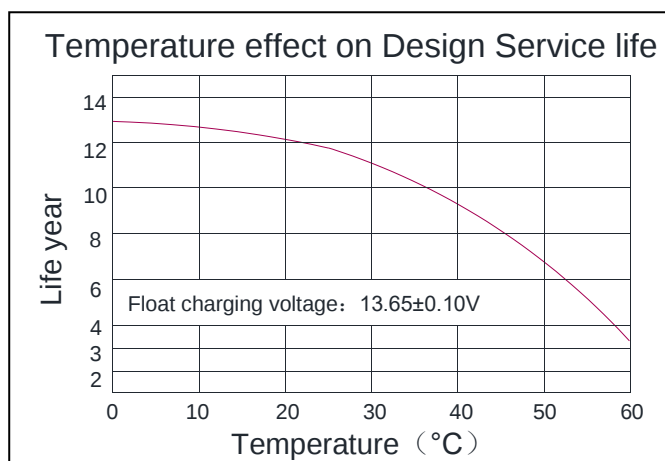
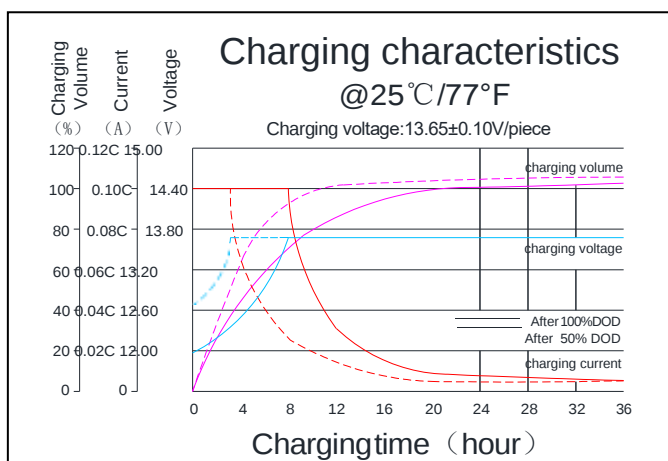
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	117.3	69.1	52.3	41.5	24.4	17.9	12.1	10.5	8.3	6.8	3.61
1.67V	110.8	65.5	50.3	40.2	23.6	17.4	11.9	10.3	8.2	6.7	3.58
1.70V	104.1	63.6	48.5	38.7	22.9	16.9	11.6	10.1	8.1	6.6	3.52
1.75V	97.5	60.8	46.3	37.1	22.4	16.5	11.4	9.9	7.9	6.6	3.48
1.80V	91.5	58.6	44.7	35.8	21.5	16.0	11.2	9.8	7.8	6.5	3.45

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	224.3	137.2	99.4	79.6	46.2	34.3	23.3	20.3	16.1	13.3	7.1
1.67V	214.6	128.6	96.0	77.4	45.0	33.3	22.9	20.0	16.0	13.2	7.1
1.70V	200.0	125.8	93.0	74.8	43.9	32.6	22.6	19.8	15.8	13.1	7.0
1.75V	187.7	119.8	89.2	72.0	42.9	31.9	22.3	19.4	15.6	12.9	6.9
1.80V	176.2	114.9	86.3	69.7	41.5	31.0	21.8	19.1	15.4	12.9	6.9

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



BATTERY CONSTRUCTION



Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert M6(torque:4~6N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

MCA Battery Manufacture Co., Ltd.

Cangjiang Industrial Estate Gaoming District Foshan City China
Tel: +86-757-66752600 Fax: +86-757-66752601



[HTTP: //WWW.MCABATTERY.COM](http://www.mcabattery.com)