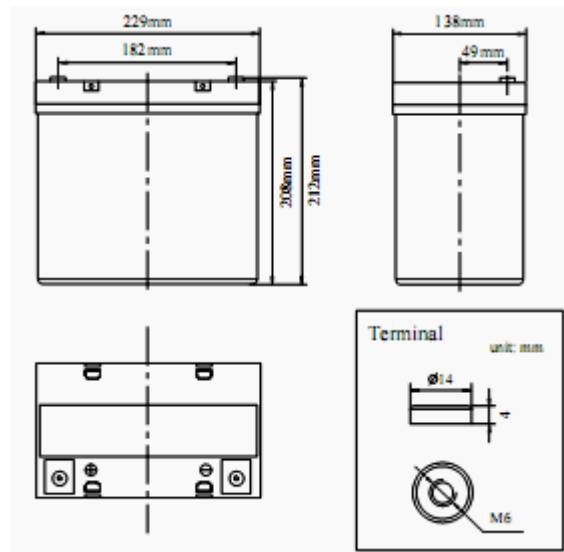


JAPATOYO® Solar colloid storage battery(GEL) 6GFMTJ48(12V48Ah)

Product Image



Product Dimensions



Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		48Ah
Capacity 25°C (77 °F)	20 hour rate (2.66A)	53.3Ah
	5 hour rate (8.8A)	44.4Ah
	1 hour rate (31.9A)	31.9Ah
Internal Resistance	Full Charged Battery 25°C	≤8.4mΩ
Capacity affected by Temperature (10 hour)	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
	-15°C (5 °F)	65%
Self-Discharge 25°C (77 °F) Capacity	after 3 month storage	90%
	after 6 month storage	80%
	after 12 month storage	62%
Charge (Constant Voltage) 25°C (77 °F)	Float	Initial Charging Current Less than 12.5A Voltage 13.6-13.8V
	Cycle	Initial Charging Current Less than 12.5A Voltage 14.4-14.9V

Packaging

Battery Dimensions	Length	229mm
	Width	138mm
	Height	208mm
	Total Height	212mm
Box Dimensions	Length	244mm
	Width	152mm
	Height	254mm
Quantity Per Box		1 PC per box
Net weight Per Cell		15.5 kg ±2100g
Net weight Per Box		15.5kg
Gross Weight		16.0kg

Discharge Constant Current per Cell (Amperes at 77°F 25°C)

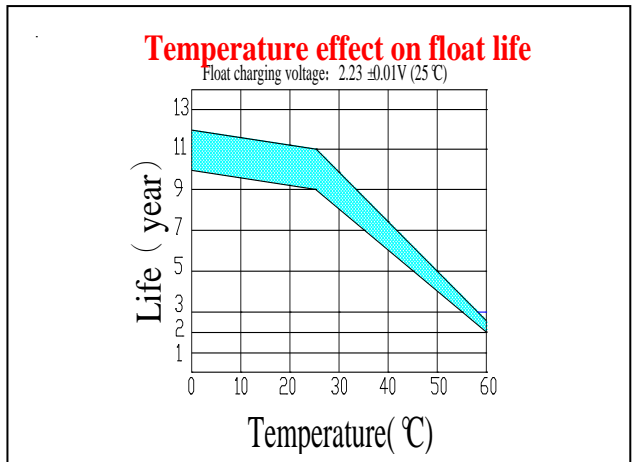
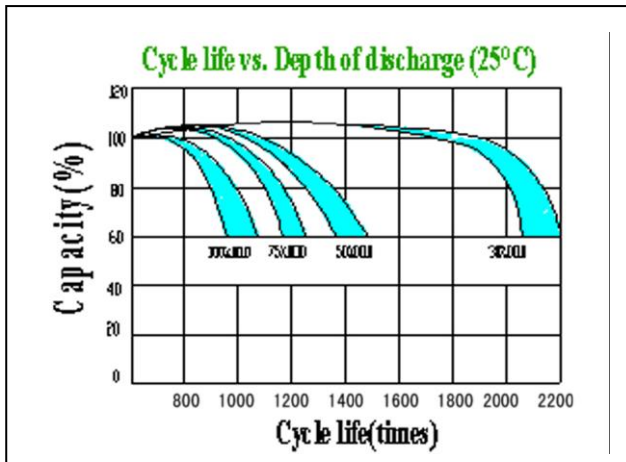
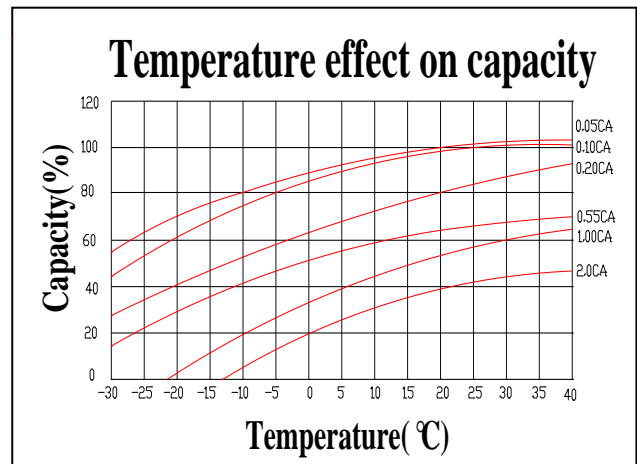
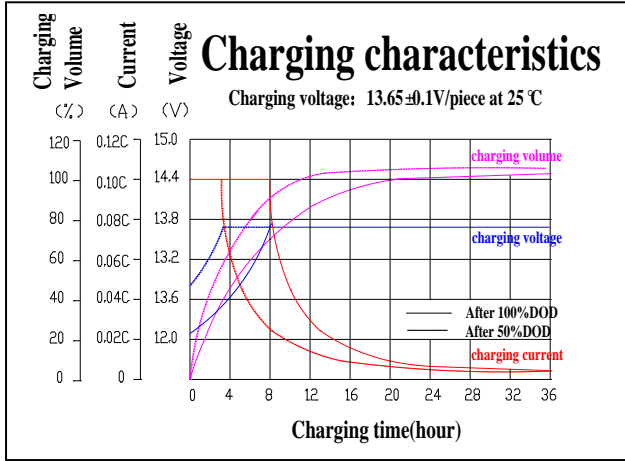
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	168.1	112.0	84.4	52.5	37.7	33.3	20.3	14.8	9.5	5.8	5.20	2.89
1.65V	155.0	103.3	80.9	51.1	36.7	32.4	19.9	14.6	9.4	5.8	5.15	2.86
1.70V	157.6	105.0	77.4	49.7	35.7	31.5	19.5	14.3	9.3	5.7	5.10	2.83
1.75V	139.2	92.8	73.9	48.3	34.7	30.6	19.1	13.9	9.1	5.7	5.05	2.80
1.80V	131.4	87.5	70.4	46.9	33.7	29.7	18.6	13.6	9.0	5.6	5.00	2.78

Discharge Constant Power per Cell (Watts at 77°F 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	313.6	208.9	157.4	98.0	70.3	62.0	37.8	27.6	17.8	10.9	9.7	5.4
1.65V	289.1	192.6	150.9	95.3	68.4	60.4	37.1	27.1	17.5	10.8	9.6	5.3
1.70V	294.0	195.8	144.3	92.7	66.5	58.7	36.4	26.6	17.3	10.7	9.5	5.3
1.75V	259.7	173.0	137.8	90.1	64.6	57.1	35.6	26.0	17.0	10.5	9.4	5.2
1.80V	245.0	163.2	131.2	87.5	62.8	55.4	34.7	25.4	16.8	10.4	9.3	5.2

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 **US** for the latest information.

Performance Characteristics



Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Lead	Fiberglass	Colloid(GEL)

Guangzhou Hengda Battery Co.,Ltd

Tel: 020-84866132 02084866098 Fax: 020-84869892
021-52811136; 021-52826931; 021-52826931-19

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<http://www.japatoyo.com>