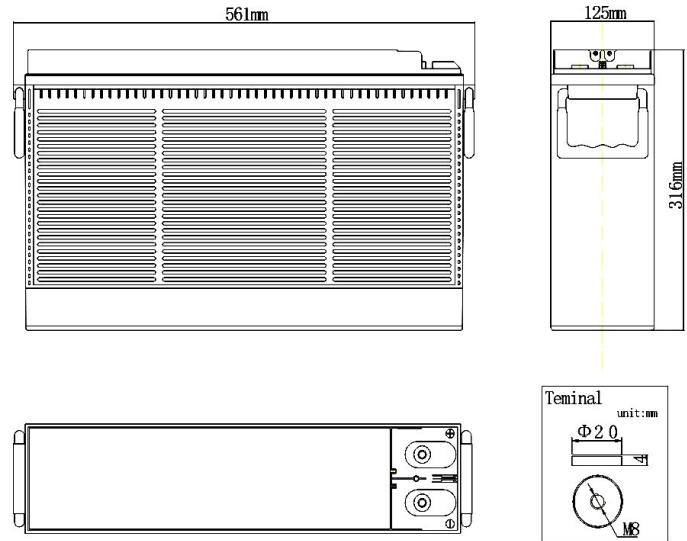


### Product Image



### Product Dimensions



### Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		180Ah
Capacity 25°C (77°F)	20 hour rate (9.45A)	189Ah
	8 hour rate (21.6A)	172.82Ah
	5 hour rate (32.1A)	160.5Ah
	1 hour rate (108.4A)	108.4Ah
Internal Resistance	Full Charged Battery 25°C	≤2.2mΩ
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 36A Voltage 13.6-13.8V
	Cycle	Initial Charging Current Less than 36A Voltage 14.4-14.9V

### Packaging

Battery Dimensions	Length	560mm
	Width	125mm
	Height	316mm
	Total Height	316mm
Box Dimensions	Length	576mm
	Width	140mm
	Height	376mm
Quantity Per Box		1 PC per box
Net weight Per Cell		54 kg ± 3%
Net weight Per Box		54kg
Gross Weight		54.5kg

#### Discharge Constant Current (Amperes at 77°F/25°C)

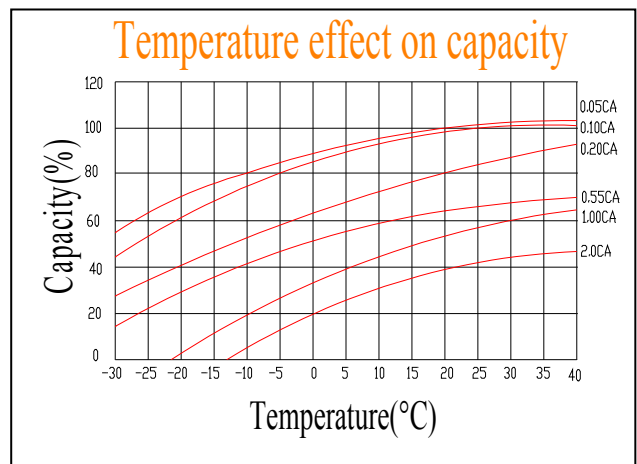
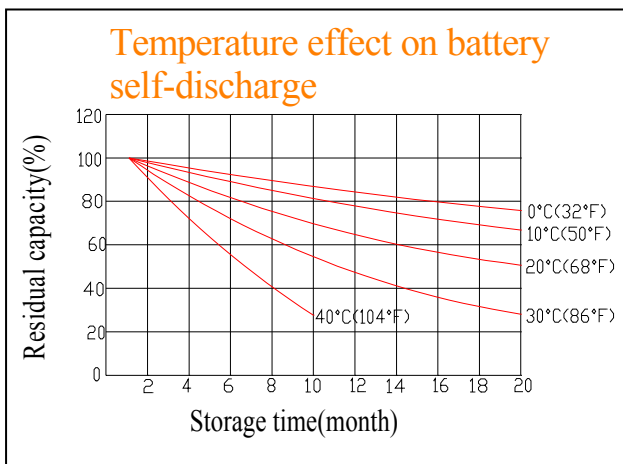
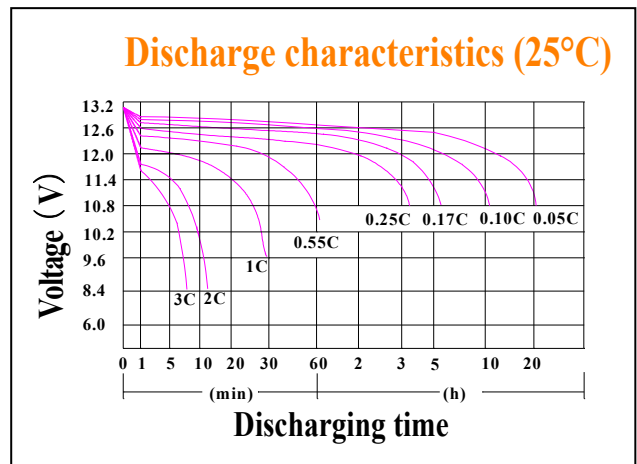
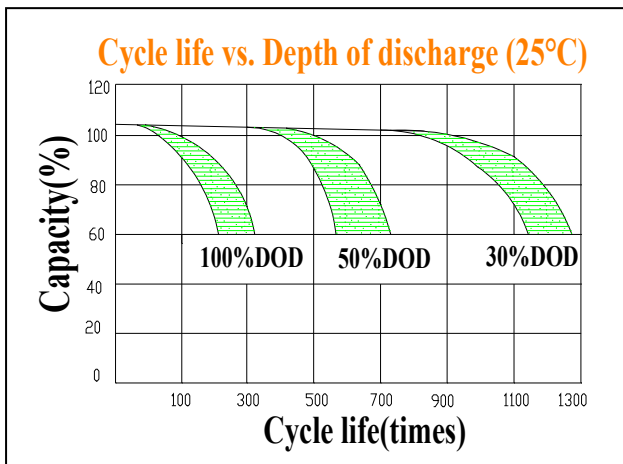
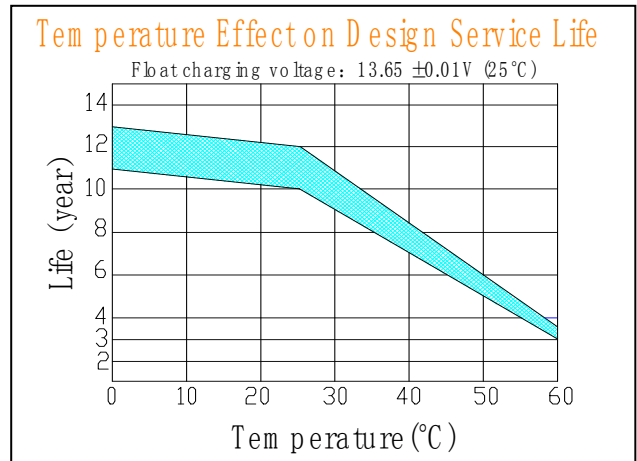
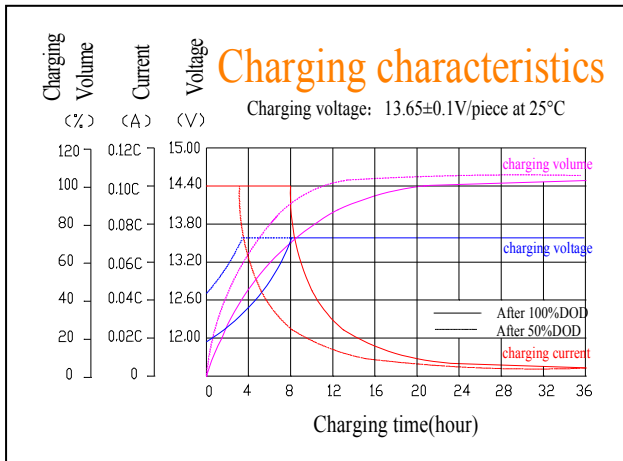
F.V/Time	15min	30min	45min	1h	1.5h	2h	3h	5h	8h	10h	12h	20h	24h
10.5	334.1	171.5	122.8	108.4	89.5	69.0	48.7	32.1	21.8	18.2	15.49	9.51	8.01
10.8	320.4	167.4	119.9	105.8	87.5	67.5	47.7	31.5	21.6	18.0	15.30	9.45	7.96
11.1	297.0	156.5	112.0	102.9	85.0	65.5	46.0	30.4	20.7	17.21	14.72	9.08	7.59
11.4	246.9	132.0	94.4	91.6	75.7	58.4	41.0	27.0	18.4	15.36	13.04	8.01	6.70

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

F.V/Time	15min	30min	45min	1h	1.5h	2h	3h	5h	8h	10h	12h	20h	24h
10.5	3808.5	2006.6	1444.3	1353.2	1111.1	849.0	599.1	394.3	268.0	223.8	190.6	116.9	98.5
10.8	3652.6	1958.6	1409.8	1301.8	1076.0	830.3	586.7	387.5	265.7	221.4	188.2	116.2	97.9
11.1	3439.8	1858.8	1324.2	1272.3	1070.5	817.0	574.3	379.2	258.0	214.8	183.7	113.3	94.7
11.4	2888.8	1567.6	1121.9	1143.8	953.7	724.8	509.0	335.2	228.1	190.7	162.0	99.5	83.3

**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
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Copper	Fiberglass	Sulfuric acid