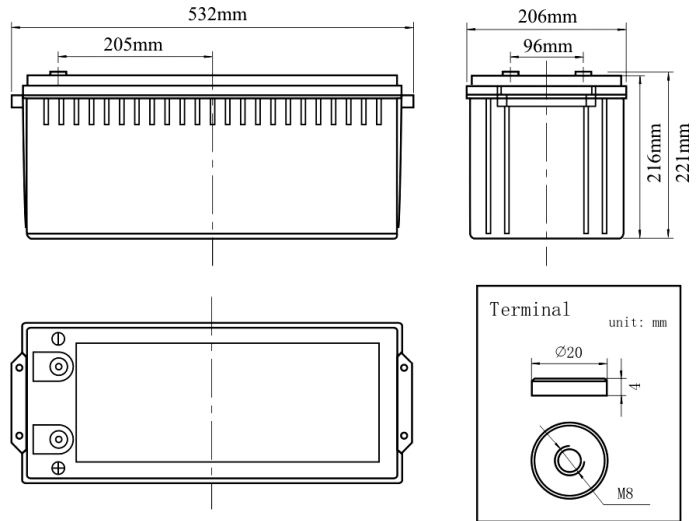


### Product Image



### Product Dimensions



### Characteristics

Nominal Voltage		12V
Nominal Capacity (20 hour rate)		180Ah
Capacity 25°C (77°F)	10 hour rate (16.2A)	162Ah
	5 hour rate (28.6A)	143Ah
	1 hour rate (99.8A)	99.8Ah
Internal Resistance	Full Charged Battery 25°C	≤3.5mΩ
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	532mm
	Width	206mm
	Height	216mm
	Total Height	222mm
Box Dimensions	Length	537mm
	Width	221mm
	Height	296mm
Quantity Per Box		1 PC per box
Net weight Per Cell		56.0 kg±3%
Net weight Per Box		56.0kg
Gross Weight		57kg

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

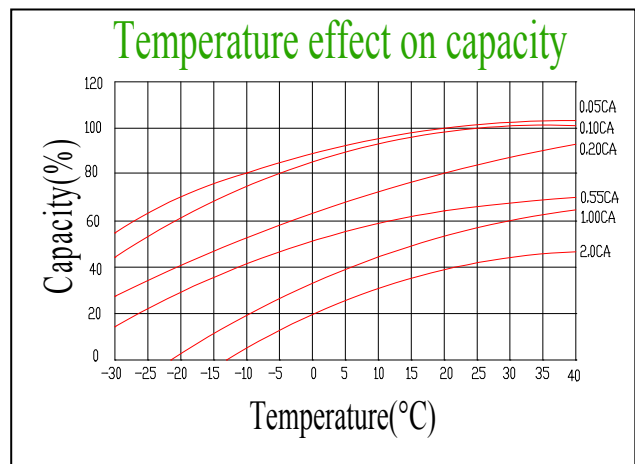
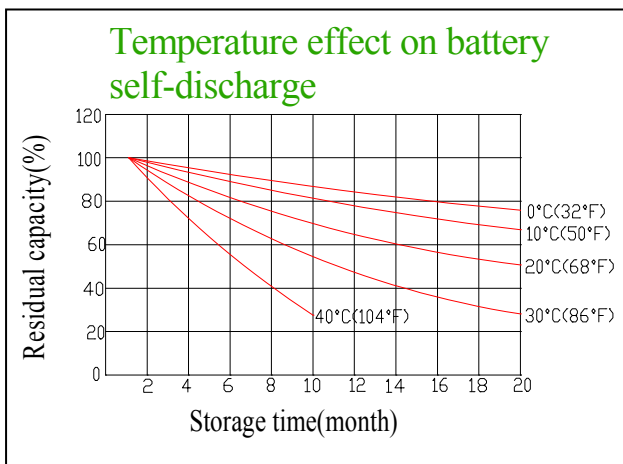
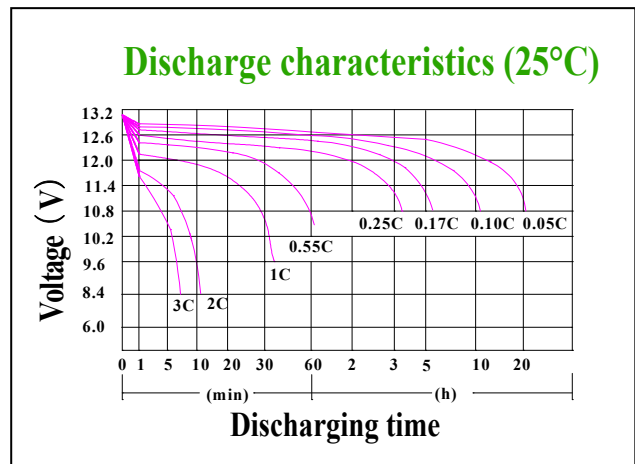
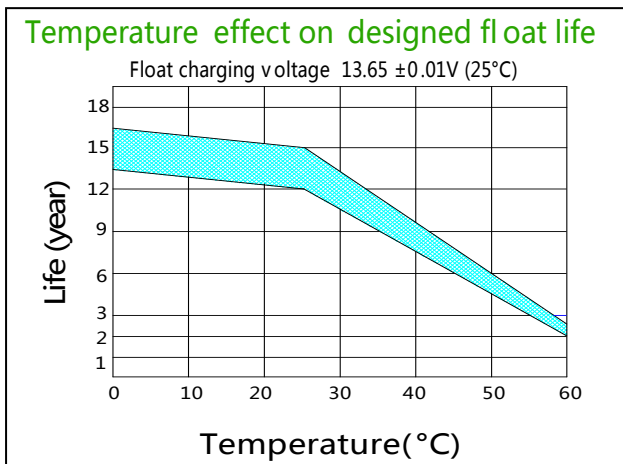
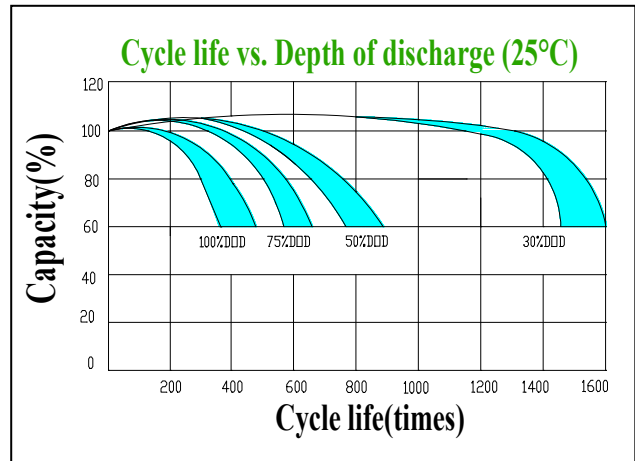
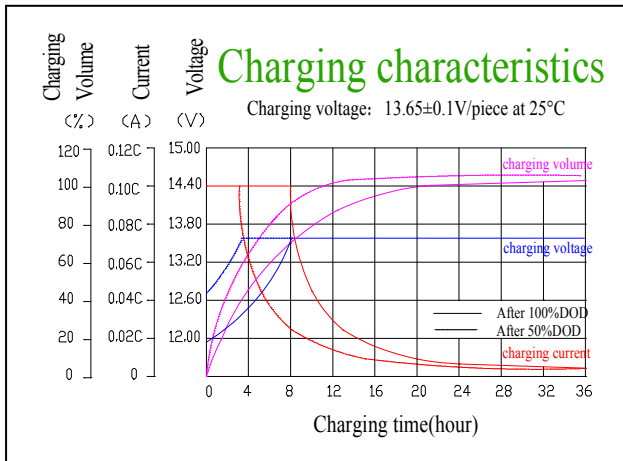
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	24h	100h
1.60V	231.7	147.5	108.9	100.0	63.5	44.6	30.3	20.0	17.8	9.72	9.7	2.16
1.65V	227.4	144.8	106.9	98.2	62.3	43.7	29.7	19.6	17.5	9.54	9.5	2.12
1.70V	223.2	142.1	104.9	96.4	61.2	42.9	29.2	19.3	17.2	9.36	9.3	2.08
1.75V	219.0	139.5	103.0	94.5	60.0	42.1	28.6	18.9	16.8	9.18	9.2	2.04
1.80V	210.6	134.1	99.0	90.9	57.7	40.5	27.5	18.2	16.2	9.0	8.8	2.00

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	24h	100h
1.60V	445.9	284.0	209.6	192.5	122.2	85.8	58.3	38.5	34.3	18.7	18.7	4.15
1.65V	437.8	278.8	205.8	189.0	119.9	84.2	57.3	37.8	33.7	18.4	18.3	4.08
1.70V	429.7	273.6	202.0	185.5	117.7	82.6	56.2	37.1	33.1	18.0	18.0	4.00
1.75V	421.6	268.5	198.2	182.0	115.5	81.1	55.1	36.4	32.4	17.7	17.7	3.92
1.80V	405.4	258.1	190.6	175.0	111.1	78.0	53.0	35.0	31.2	17.3	17.0	3.85

**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