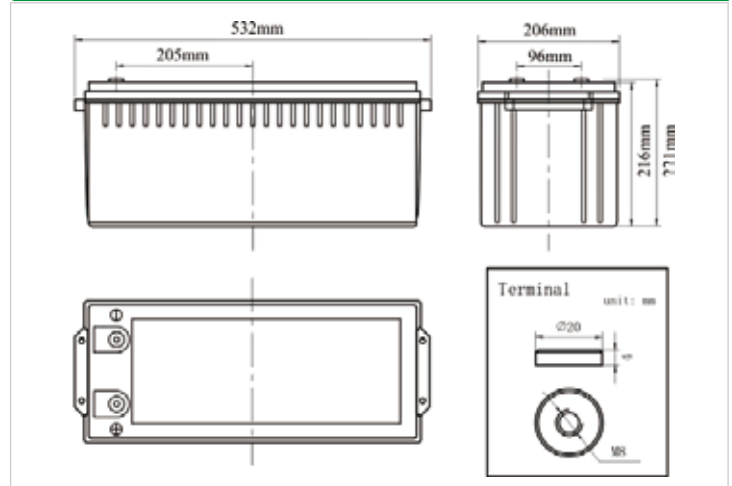


# FCG12-180

Product Image



Product Dimensions



## Cycle Service Life(25°C/77°F)

### Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		180Ah
Capacity 25°C(77°F)	20 hour rate (9.99A)	199.8Ah
	5 hour rate (32.9A)	164.5Ah
	1 hour rate (119.8A)	119.8Ah
Internal Resistance	Full Charged Battery 25°C	≤3.0m Ω
Capacity affected by Temperature (10 hour )	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F)	90%
	-15°C (5°F)	70%
Self-Discharge 25°C(77°F) Capacity	after 3 month storage	92%
	after 6 month storage	84%
	after 12 month storage	65%
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	221mm
Box Dimensions	Length	547mm
	Width	220mm
	Height	296mm
Quantity Per Box		1 PC per box
Net weight Per Cell		52kg±500g
Net weight Per Box		52kg
Gross Weight		52.8kg

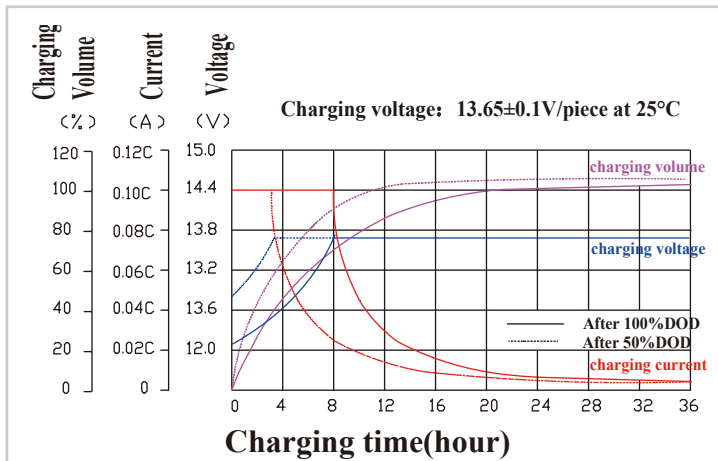
### Discharge Constant Current (Amperes at 77°F25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	605.3	403.2	303.9	189.1	135.7	119.8	73.0	53.4	34.3	21.0	18.72	10.39
1.65V	558.0	371.7	291.2	184.0	132.0	116.5	71.6	52.4	33.9	20.8	18.54	10.29
1.70V	567.4	378.0	278.6	179.0	128.4	113.3	70.3	51.4	33.4	20.6	18.36	10.19
1.75V	501.2	333.9	265.9	173.9	124.8	110.1	68.6	50.2	32.9	20.4	18.18	10.09
1.80V	472.9	315.0	253.3	168.8	121.1	106.9	67.0	49.0	32.4	20.2	18.00	9.99

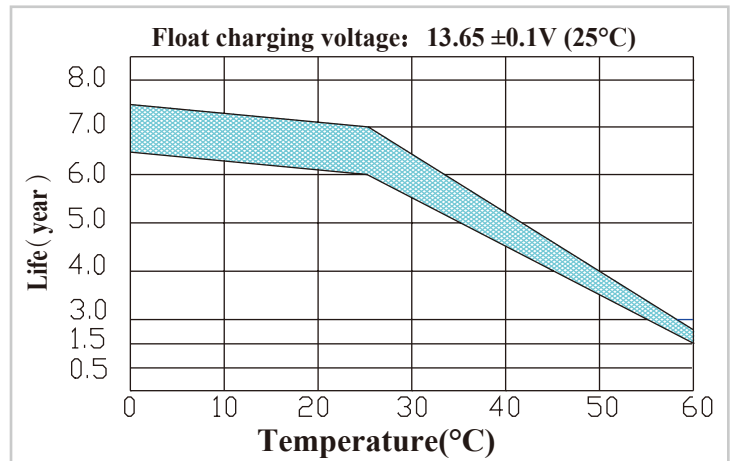
### Discharge Constant Power (Watts at 77°F 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1128.8	752.0	566.8	352.7	253.0	223.3	136.1	99.5	64.1	39.1	34.9	19.4
1.65V	1040.6	693.2	543.2	343.2	246.3	217.4	133.6	97.7	63.1	38.7	34.6	19.2
1.70V	1058.3	705.0	519.6	333.8	239.5	211.4	131.1	95.9	62.2	38.4	34.2	19.0
1.75V	934.8	622.7	495.9	324.3	232.7	205.4	128.0	93.6	61.3	38.0	33.9	18.8
1.80V	881.9	587.5	472.3	314.9	225.9	199.4	124.9	91.3	60.4	37.6	33.6	18.6

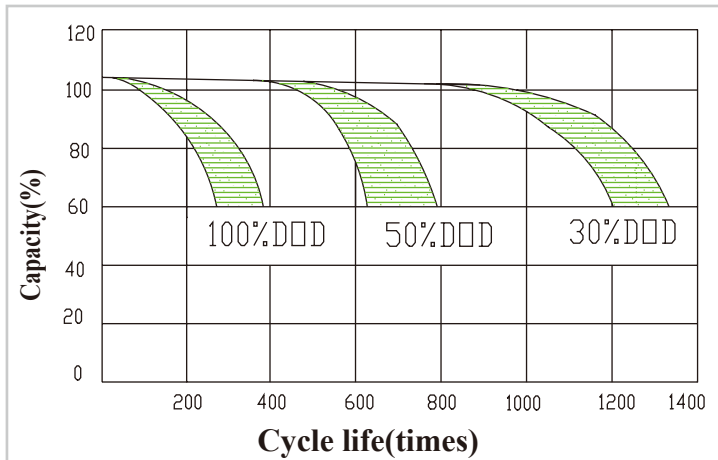
### Charging characteristics



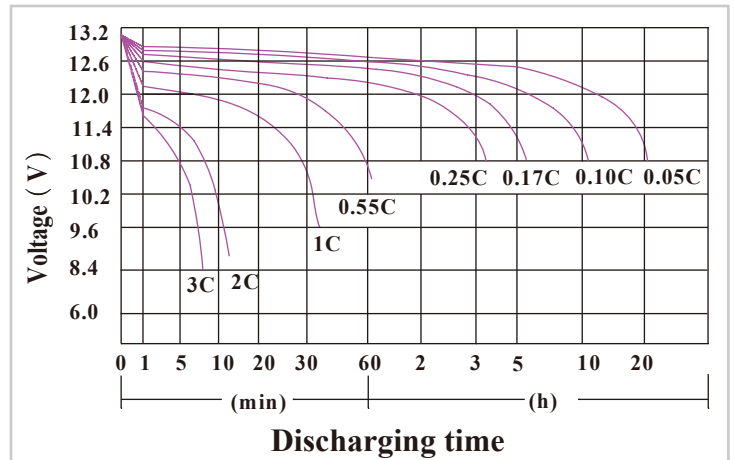
### Temperature effect on float charging life



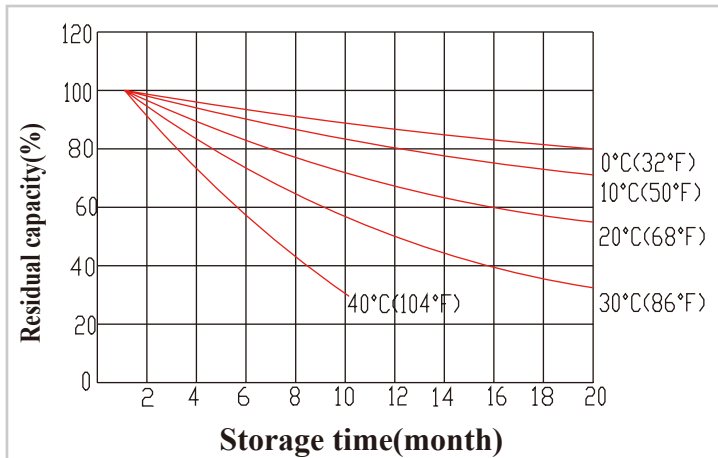
### Cycle life vs. Depth of discharge(25°C)



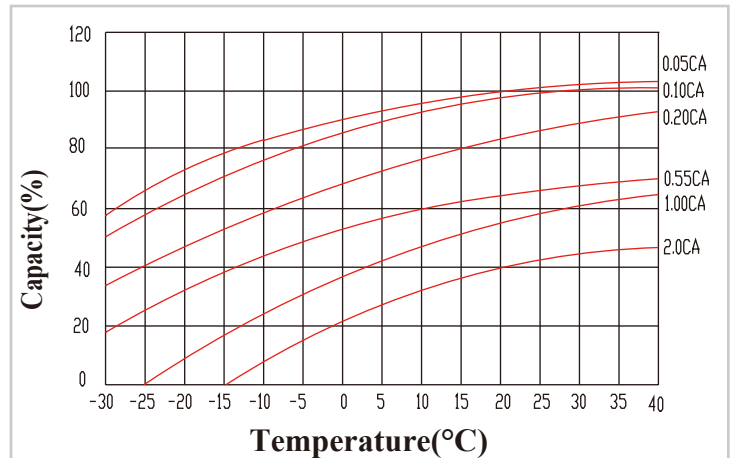
### Discharge characteristics (25°C)



### Temperature effect on battery self-discharge



### Temperature effect on capacity



### 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	GEL