

# DEEP CYCLE GEL BATTERY

SPG50-12 EB (12V55Ah)

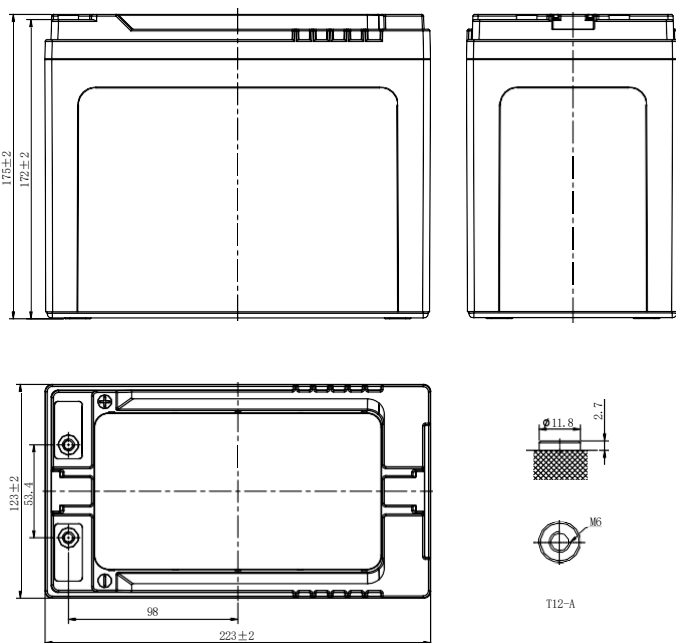


## CHARACTERISTICS

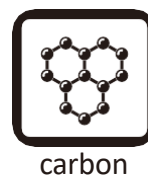
| Item                  |                  | Specifications      |
|-----------------------|------------------|---------------------|
| Voltage               |                  | 12V                 |
| Dimension             | Length           | 223mm (8.78inches)  |
|                       | Container Height | 175mm (6.89inches)  |
|                       | Total Height     | 175mm (6.89inches)  |
| Approx Weight         |                  | 13.4kg (29.5lbs)    |
| Terminal              |                  | T12-A(M6)           |
| Container Material    |                  | ABS                 |
| Capacity              | 20HR             | 55Ah                |
|                       | 5HR              | 48Ah                |
| Operating Temp. Range | Discharge        | -20~55°C (-4~131°F) |
|                       | Charge           | 0~40°C (32~104°F)   |
|                       | Storage          | -15~40°C (5~104°F)  |

## APPLICATIONS

- Electric vehicle
- Golf cart
- Sightseeing
- Cleaning equipment
- AWP
- Mobility



Note: Terminal Torque Values in-lb(Nm):34.39-47.75(3.9-5.4)



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## GENERAL FEATURES

### Stable initial capacity

- PAM/NAM amount optimization
- 4BS crystal paste mixing & curing technology
- Double layer separator technology
- Improved design electrolyte S.G.

### Less water loss

- PAM/NAM amount optimization
- New PAM/NAM recipe introduced
- Rare earth alloy

### Solve NAM sulphation

- Carbon boost technology
- Pre-sulfate technology

### Improved PSoC cycling

- Carbon boost technology
- Mix carbon boost technology
- Targeting for higher level through carbon technology

### Delay PAM softening and shedding

- Plate assembly pressure re-engineering
- 4BS crystal paste mixing & curing technology
- Higher paste density

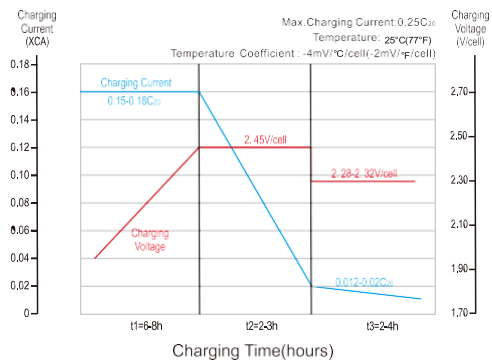
### Optimize electrolyte stratification

- Introduce GEL technology

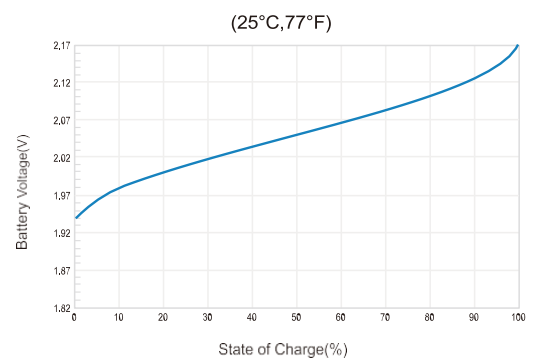
### Excellent deep cycle performance

- Plate assembly pressure re-engineering
- New PAM/NAM recipe introduced
- Gel electrolyte technology
- Rare earth alloy
- Double layer separator technology
- Lower acid filling temperature

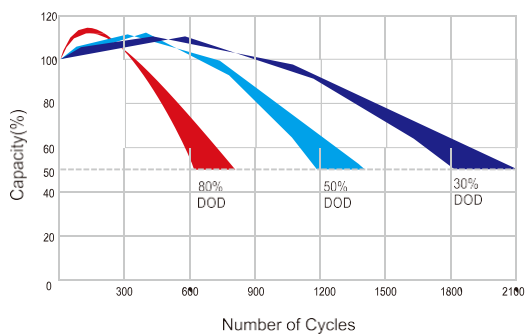
### Charging Profiles



### Relationship of OCV and State Of Charge



### Cycle Life in Relation to Depth Of Discharges



### Self-discharge Characteristics

