

# STARMAX



**RE** RENEWABLE ENERGY

## DEEP CYCLE FLOODED BATTERIES

ST8-170 (8 Volts)



[www.starmaxbatteries.com](http://www.starmaxbatteries.com)

# DEEP CYCLE FLOODED BATTERY

## ST8-170

### APPLICATIONS

Widely used in low-speed electric vehicles such as golf carts, sightseeing cars, patrol cars, electric tricycles, aerial work platforms, floor cleaning machines, forklift trucks, marine & RV, oil & gas, renewable energy and others.

### SPECIAL FEATURES

- ✓ High density plates and reinforced grid design withstand continual deep cycling
- ✓ Special plate design and baffle structure increase battery performance
- ✓ Long cycle serve life, strong recovery ability of deep discharge
- ✓ Reliable sealing structure ensures no leakage during use
- ✓ Rugged vibration-resistant construction withstands heavy-duty use making it durable
- ✓ Good heat dissipation conditions, low risk of thermal runaway, easy maintenance
- ✓ High energy, low internal resistance, low-self discharge, no noise, easy to operate
- ✓ Tough polypropylene case and cover increases resistance to breakage protecting the equipment and it service life
- ✓ The special alloy and separator material improves the corrosion resistance of the plate, reduces water consumption, increases the service life of the battery and good deep discharge performance

### SPECIFICATIONS

| BCI | Model   | Voltage | C <sub>5</sub> | C <sub>20</sub> | 56A    | Dimensions (mm) |       |       |       | Weight (kg) |
|-----|---------|---------|----------------|-----------------|--------|-----------------|-------|-------|-------|-------------|
|     |         |         |                |                 |        | L               | W     | H     | TH    |             |
| GC8 | ST8-170 | 8       | 140Ah          | 170Ah           | 115min | 261±1           | 183±1 | 246±1 | 275±1 | 29.0        |



|            |  |
|------------|--|
| MODEL      | ST8-170                                  |
| VOLTAGE    | 8  |
| MATERIAL   | Polypropylene                            |
| DIMENSIONS | Inches (mm)                              |
| BATTERY    | Deep-Cycle Flooded/Wet Lead-Acid Battery |
| COLOR      | Black                                    |

## 8 VOLT

### CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C) |       |       |       |
|---|-------|-------|-------|
| SYSTEM VOLTAGE                          | 8V    | 24V   | 48V   |
| Bulk Charge                             | 9.88  | 29.64 | 59.28 |
| Float Charge                            | 9.00  | 27.00 | 54.00 |
| Equalize Charge                         | 10.80 | 32.40 | 64.80 |

- ✔ High density lead paste for grids to ensure long life cycle performance
- ✔ Multiple alloy formula for grids, to ensure the long life and reliability
- ✔ High quality PE separator, with small resistance, strong corrosion resistance, small aperture and high porosity
- ✔ Long life, high power, good vibration resistance, small self-discharge, good at high and low temperature environment, adaptability, charging acceptance ability
- ✔ Do not install or charge batteries in a sealed or non-ventilated compartment. Constant or overcharging will damage the battery and shorten its life as with any battery

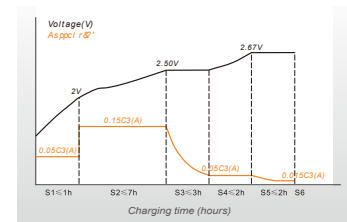
### OPERATIONAL DATA

| OPERATING TEMPERATURE  | SELF DISCHARGE  |
|--|---|
| -20°C~45°C(-4°F~113°F)<br>Keep the SOC ≥ 60% if lower than 0°C | 5 – 15%/month based on storage temperature conditions |

### TERMINAL

|                    |               |
|--------------------|---------------|
| H(mm)              | 38            |
| Nm(Nm)             | 10.7          |
| BOLT SPECIFICATION | M8 ( Metric ) |

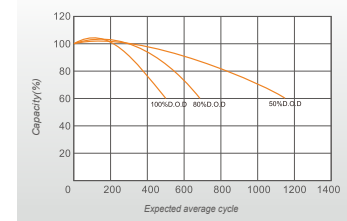
Charging characteristic (25°C)



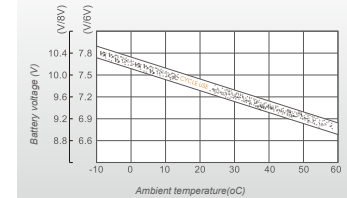
### V-MIC-SOC-INSTRUCTIONS

| CAPACITY% | CONCENTRATION | CELL VOLTAGE | 6 VOLT | 8 VOLT | 8 VOLT |
|-----------|---------------|--------------|--------|--------|--------|
| 100       | 1.289         | 2.134        | 6.40   | 8.54   | 12.80  |
| 90        | 1.268         | 2.113        | 6.34   | 8.45   | 12.68  |
| 80        | 1.246         | 2.091        | 6.27   | 8.36   | 12.55  |
| 70        | 1.225         | 2.070        | 6.21   | 8.28   | 12.42  |
| 60        | 1.204         | 2.049        | 6.15   | 8.20   | 12.29  |
| 50        | 1.178         | 2.023        | 6.07   | 8.09   | 12.14  |
| 40        | 1.152         | 1.997        | 5.99   | 7.99   | 11.98  |
| 30        | 1.128         | 1.973        | 5.92   | 7.89   | 11.84  |
| 20        | 1.102         | 1.947        | 5.84   | 7.79   | 11.68  |
| 10        | 1.078         | 1.923        | 5.77   | 7.69   | 11.54  |

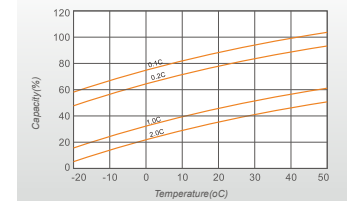
Cycle life in relation to depth of discharge



Relationship between charging voltage and temperature



Temperature effects on capacity



### RECYCLE RESPONSIBLY

99%

RECYCLABLE

8V

Flooded





**Starmax Corporation**

1585 Cliveden Avenue, Delta, British Columbia  
V3M 6M1, Canada

**Phone:** +1 888 669 1310

**Email:** [info@starmaxbatteries.com](mailto:info@starmaxbatteries.com)

**Website:** [www.starmaxbatteries.com](http://www.starmaxbatteries.com)

