

# STARMAX



**EV** GOLF / UTILITY VEHICLES

## 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

### 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

### RECYCLE RESPONSIBLY

**99%**  
RECYCLABLE

**8V**  
Flooded

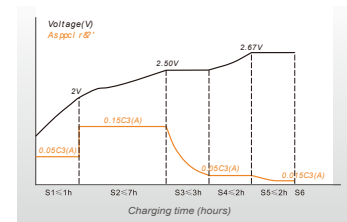
### OPERATIONAL DATA

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

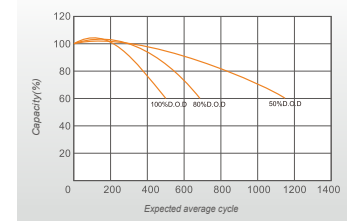
### TERMINAL

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

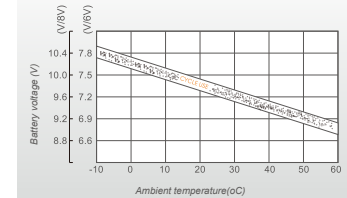
Charging characteristic (25°C)



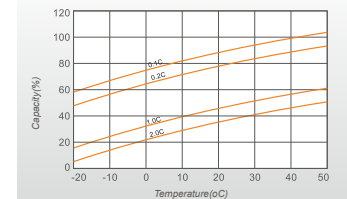
Cycle life in relation to depth of discharge



Relationship between charging voltage and temperature



Temperature effects on capacity





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