



# Deep Cycle *Flooded* Batteries

Batteries that last and last

## N70TX MF (12V95Ah)



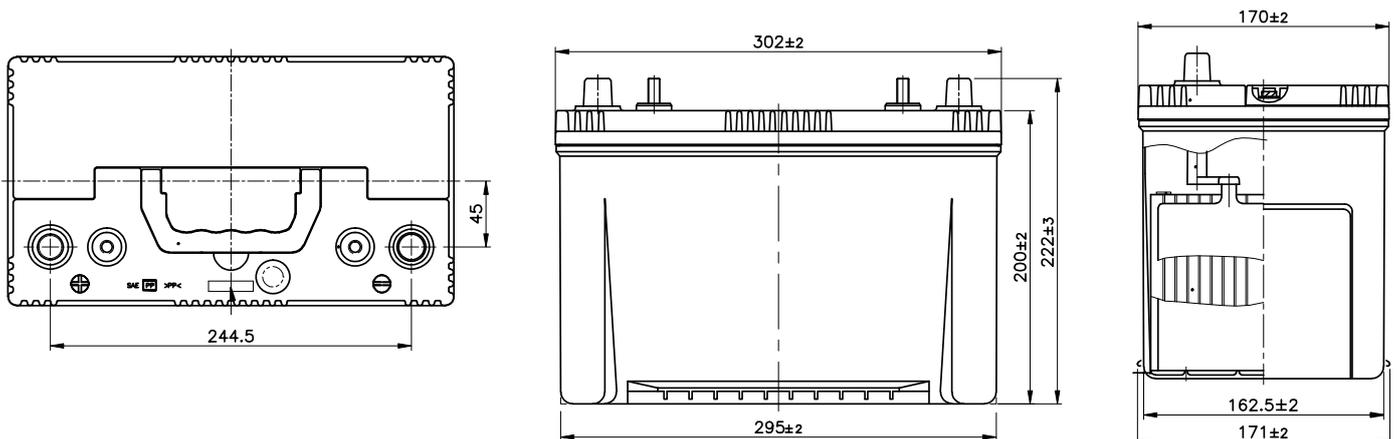
Century Deep Cycle Flooded batteries are constructed using thicker plates, specialist antimonial lead alloys and denser active material, to withstand repeated recharge and discharge cycles. Premium grade raw materials and electrolyte ensure reliable deep cycle performance in recreational and commercial applications.

### Product Specifications

<b>Voltage</b>	12	<b>Weight</b>	Approx. 21.20 kg
<b>Capacity</b>	95Ah@20hr-rate	<b>Terminal</b>	Standard/Wing Nut
<b>Operating Temperature Range</b>	25°C ± 5°C	<b>Recommended Max. Charging – Current Limit</b>	9.5A
<b>Self Discharge</b>	Century flooded batteries can be stored for more than 6 months at 25°C. Self-discharge rate less than 3% per month at 25°C. Please charge battery prior to long term storage and before using.	<b>Equalisation and Cycle Service</b>	14.4DC/unit average at 25°C
<b>Container Material</b>	Polypropylene (PP)	<b>Separator Material</b>	Polyethylene (PE)
<b>Positive Grid Material</b>	Lead Calcium Alloy – Expanded Grids	<b>Negative Grid Material</b>	Lead Calcium Alloy – Expanded Grids

\*We do not recommend to float charge flooded Sealed Maintenance Free (calcium) batteries due to the risk of drying out of the electrolyte.

**Unit:** mm **Dimension:** 302 (L) x 172 (W) x 202 (H) x 225 (TH)



ALL MENTIONED VALUES ARE AVERAGE VALUES.

## Charging Procedure

Correct charging is one of the most important factors when using deep cycle lead acid batteries. Following a discharge, the battery should be fully charged in a well ventilated area.

Charging at constant voltage is the most suitable method for charging a deep cycle battery. The Charging Curve example (below) shows the typical charging characteristic of a deep cycle battery that has been discharged to 80% depth of discharge, then charged with a constant voltage charger at 14.4V with the initial charging current controlled at 0.1CA.

The charging current is maintained at this level until the battery voltage reaches 14.4V. At this point, the constant voltage phase starts and charging current gradually drops. The charging process is terminated when the charging current has dropped below 2% of nominal capacity, or total charging time of 24 to 36 hours.

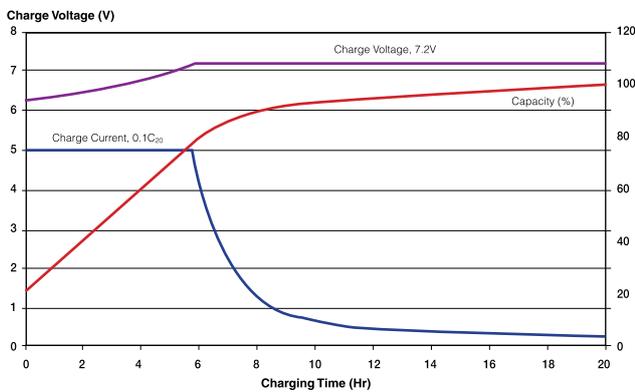
It is recommended that charging should be stopped if the electrolyte temperature reaches 50°C. It can recommence when the temperature has dropped back below 40°C.

In an application where multiple batteries are employed, there is also a need to provide an equalisation charge once a month. This ensures that every cell in the battery bank is fully charged and balanced. This is completed by fully charging the battery, then extending the charging time by another 12 to 24 hours at 14.4V.

For batteries used in seasonal applications and stored long term, fully recharge the battery prior to storing. Check the state of charge or voltage regularly. To maintain optimum performance, it is recommended that the battery is recharged at least once per month while in storage.

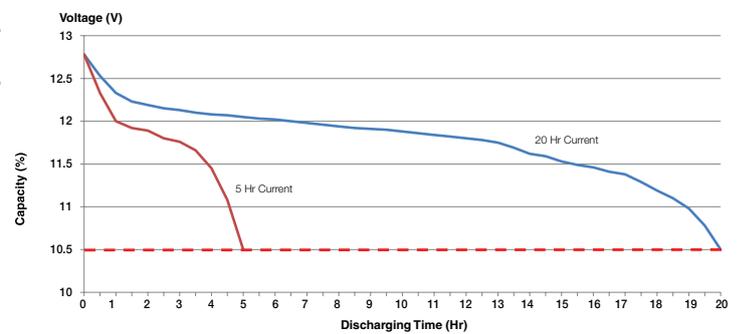
## Charging Curve Example

Deep Cycle Product Charging Characteristics (80% DOD)



## Discharge Curve Example

Discharging Characteristics, 25°C



Product	C <sub>20</sub> (Ah)	C <sub>10</sub> (Ah)	C <sub>5</sub> (Ah)
N70TX MF	95	86	77



**CENTURY DEEP CYCLE RANGE: N70TX MF, NS70T, NS70TX MF, D23RT, D23LT, 12A, 43T, 86T, 89T, N70T**



### Battery Disposal

This battery is 98% recyclable. Help create a cleaner planet, return your used battery to the original place of purchase or your nearest CenturyYuasa approved Battery Recycling Centre.