# TECHNICAL DATA SHEET

## 6PZS180


### Applications

CYCLIC SOLAR MARINE

## I. Characteristics

| | |
|---|---|
| Nominal voltage /V/ | 6 |
| Nominal capacity while 5h discharge C5 /Ah/ | 175 |
| Capacity in 20h discharge C20 /Ah/ | 225 |
| Nominal power of discharge IN=CN(Ah)/5h /A/ | 35 |
| End voltage discharge Ur /V/ | 5,1 |
| End voltage charge /V/ | 7,8 ÷ 8,1 |
| Electrolyte density in fully charged condition | 1,28 ± 0,01 g/cm$^3$ at 30$^0$C |
| Length, width, height | 260x180x275 |
| Weight with electrolyte | 31 |
| Charging- discharging cycles | 800 |
| Guarantee /months/ | 18 |

## II. Characteristics of self-discharge .

The Self-discharge of traction batteries, at temperature +30$^0$C after being in fully charged condition 30 days, should be not more than 1 %

## III. Batteries' lifetime – characteristics .

Number of Charging – discharging cycles 800 – when following the instructions presented by the manufacturer.

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BATTERY SUPPLIES

## IV. Temperature effect on the capacity.

The capacity of the starter batteries is considered to be true for the temperature of $30^0$C. If during the testing of the capacity the degrees are different from $30^0$C, the capacity may be equaled to $30^0$C using the following formula:

$$C_a = \frac{C}{1+0{,}006(T_{at.} - 30^\circ C)}$$

$C_a$ - True capacity.

C - Measured capacity.

$T_{at.}$ - Average temperature during the testing.

For practical purposes the true capacity could be calculated by using the following way:

- With raising the temperature above $30^0$C the measured capacity will be increased with 0.6% per every degree.
- With decreasing the temperature under $30^0$C the measured capacity will be decreased with 0.6% per every degree.