

NOMBRE DE CYCLES EN FONCTION DU D.O.D

MODELE OPZS

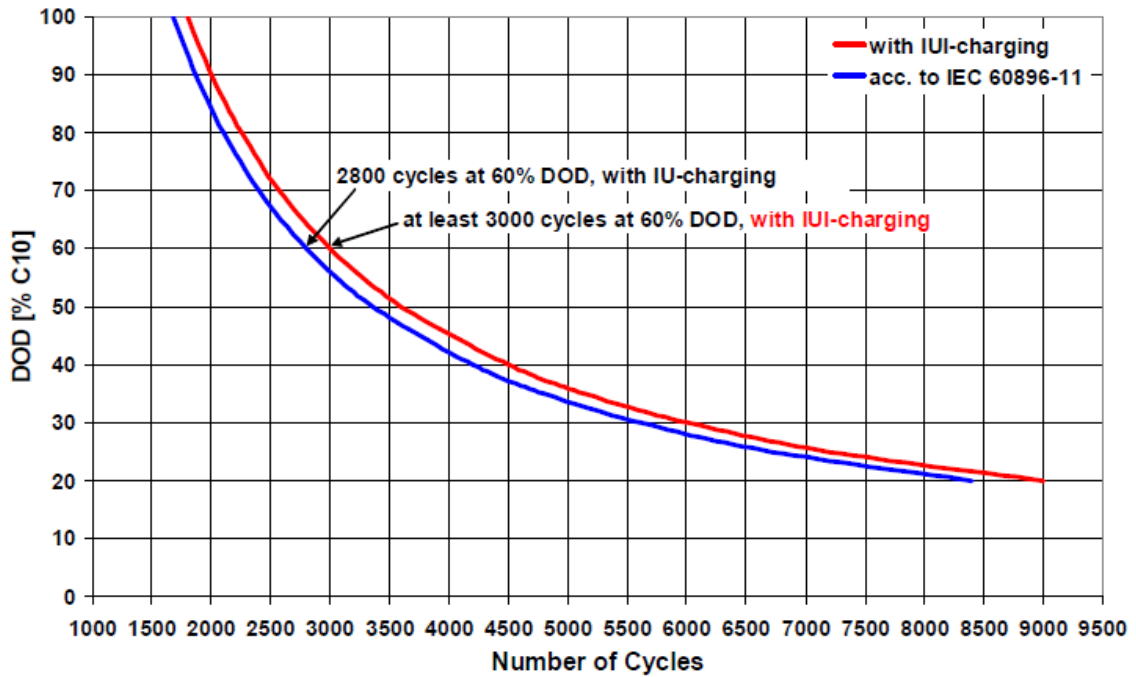


Fig. 13a: OPzS Solar-Cells - Number of Cycles vs. Depth of Discharge (DOD)

MODELE OPZS BLOCK

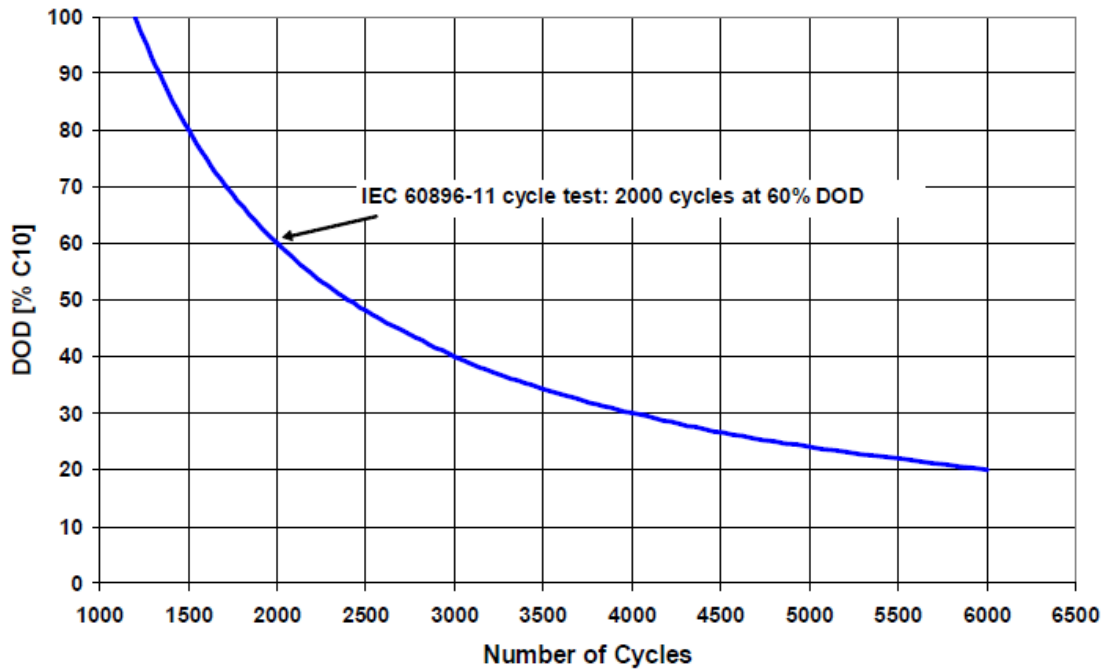


Fig. 13b: OPzS Solar-Blocks - Number of Cycles vs. Depth of Discharge (DOD)

## MODELE SONNENCHEIN SOLAR

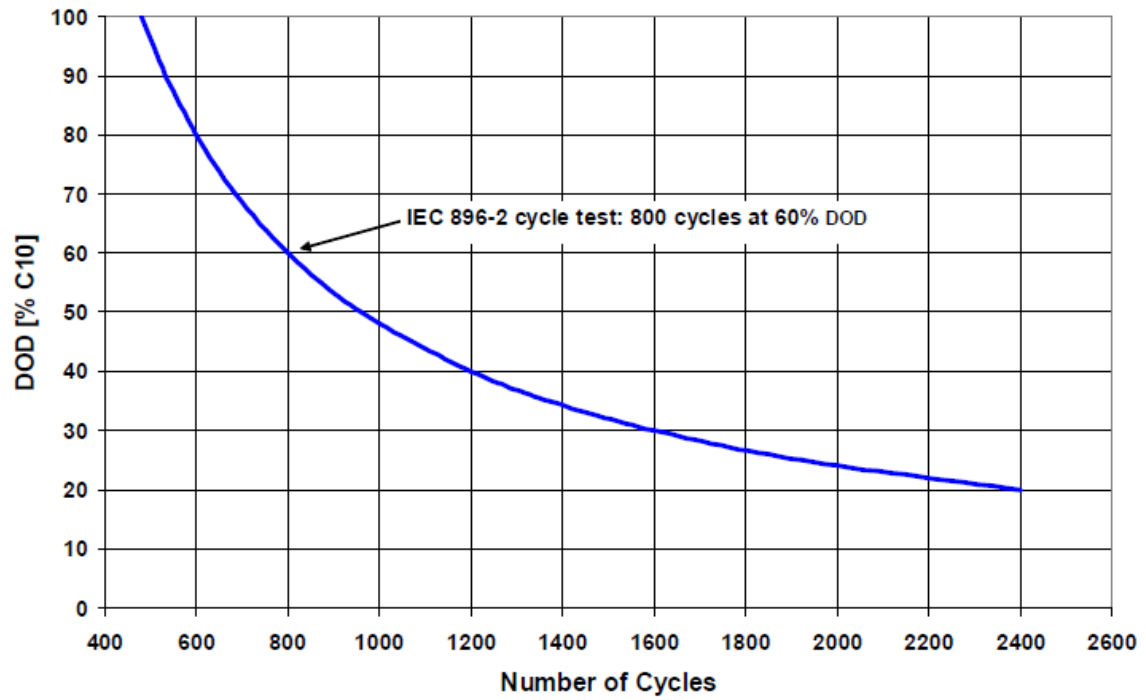


Fig. 23: SOLAR - Number of Cycles vs. Depth of Discharge (DOD)

**MODELE SONNENCHEIN SOLAR BLOCK et A600 SOLAR**

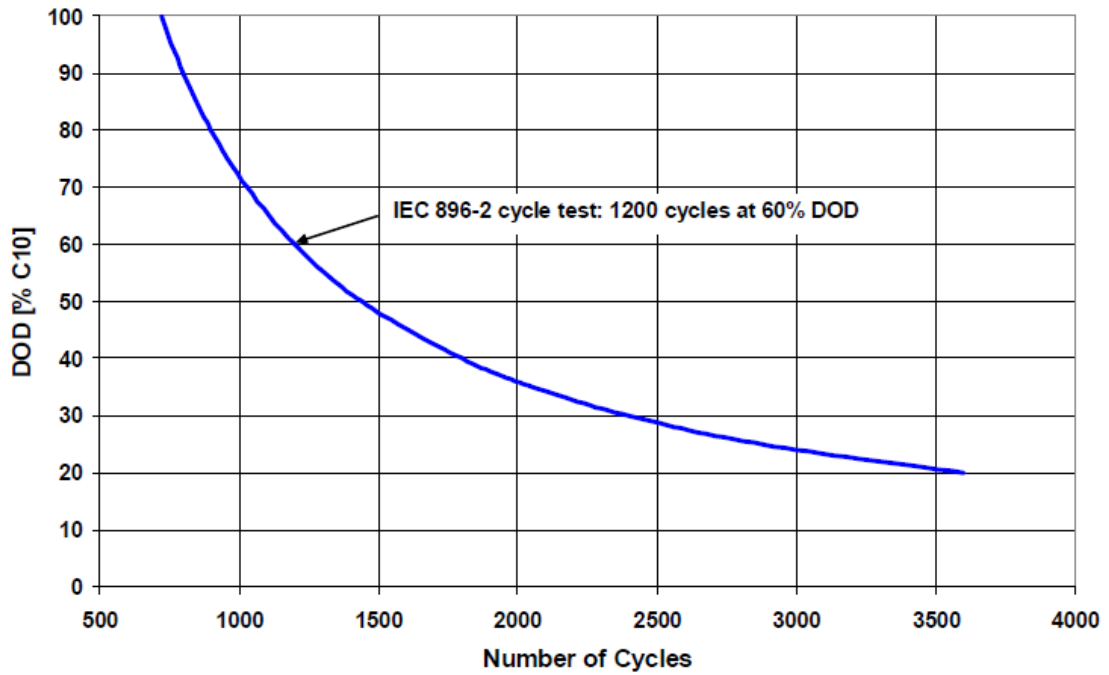


Fig. 24: SOLAR BLOCK- Number of Cycles vs. Depth of Discharge (DOD)

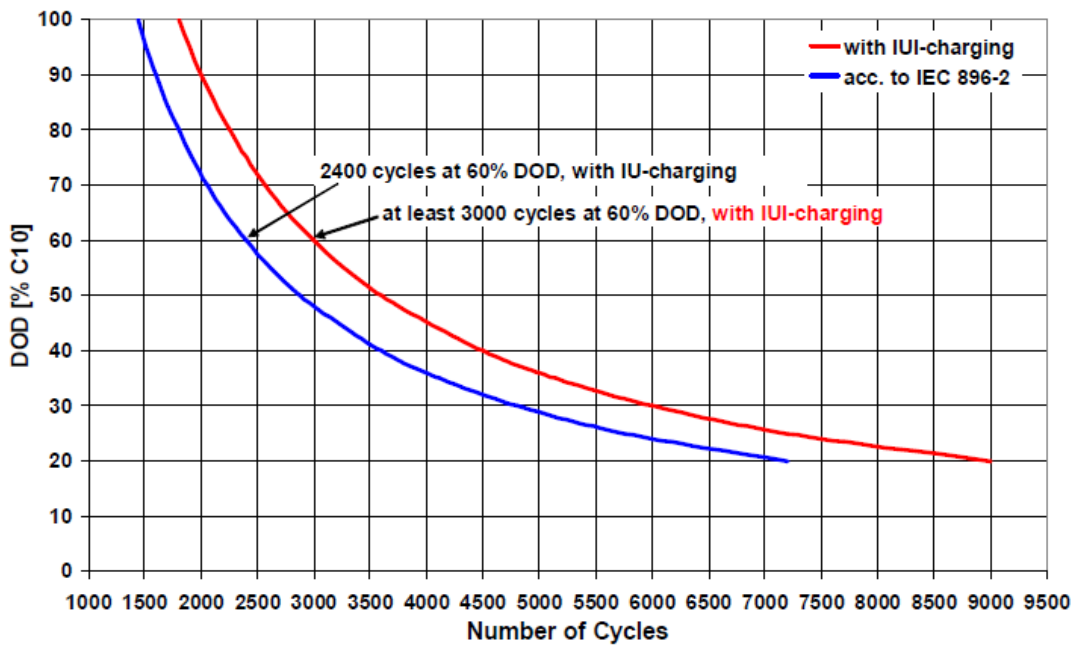


Fig. 25: A600 SOLAR - Number of Cycles vs. Depth of Discharge (DOD)

**IUI-characteristics for re-charging  
“Sonnenschein A600 SOLAR” and “Classic OPzS Solar”**

The following re-charging procedures to be used for above mentioned cell types in heavy duty cyclical applications e.g. photovoltaic, hybrid systems etc.

Precautions should be taken with regard to the connected consumer(s) because the voltage in the second I-constant part of the charging characteristic is not limited and will increase to values of more than 2.35 respectively 2.4 Vpc.

**1. A600 SOLAR**

I-constant charging with 10 to 35 A / 100 Ah C<sub>10</sub> until U = 2.35 Vpc.

U-constant charging at 2.35 Vpc until I = 1.4 A /100 Ah C<sub>10</sub>.

I-constant charging 4 hours with 1.4 A / 100 Ah C<sub>10</sub>.

**2. OPzS Solar**

I-constant charging with 10 to 35 A / 100 Ah C<sub>10</sub> until U = 2.40 Vpc.

U-constant charging at 2.40 Vpc until I = 2 A /100 Ah C<sub>10</sub>.

I-constant charging 8 hours with 2 A / 100 Ah C<sub>10</sub>

For shorter charging times:

I-constant charging with 10 to 35 A / 100 Ah C<sub>10</sub> until U = 2.40 Vpc.

U-constant charging at 2.40 Vpc until I = 4 A /100 Ah C<sub>10</sub>.

I-constant charging 4 hours with 4 A / 100 Ah C<sub>10</sub>