

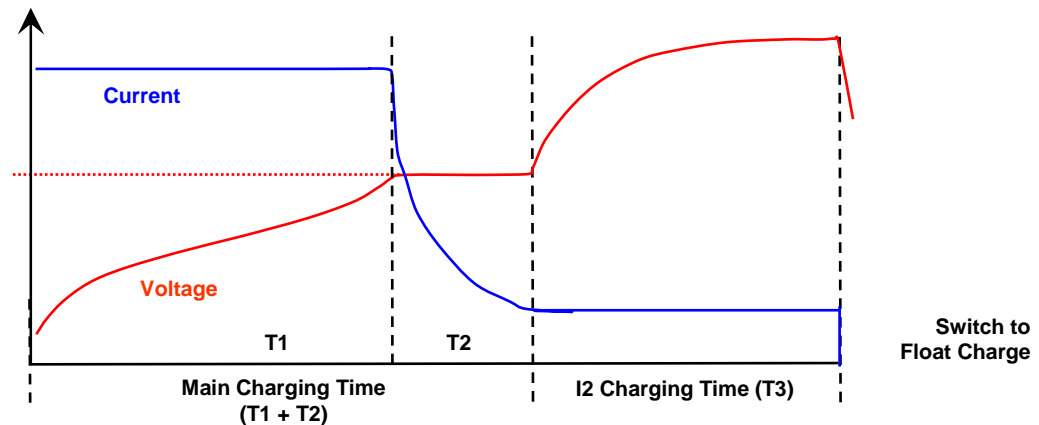
## IUI Charging of TAB OPzV stationary cells

VRLA batteries require a regulated charging characteristic. It is important that the charger meets the needed standards for GEL batteries in terms of charging regime, ripple current and all safety issues. Only from the battery manufacturer recommended and approved chargers should be used.

### Charging regime

The charging regime is an IUI characteristic. The first constant phase ends when the cell voltage reaches 2,35 V and the charger switch to a constant voltage phase of 2,35 V per cell. The second I (I2) phase begins when the current dropped down to 1,3 to 1,5 A per 100Ah of battery capacity.

The main charging time (T1 and T2) can take max. 12 hours; the T3 time depends of the main charging time and can vary from 1 hour to 4 hour max.



Charging data:

|                |                                      |
|----------------|--------------------------------------|
| Charging time: | 12 – 14 hours                        |
| I1 current:    | 13 – 15 A (for 100Ah cell capacity)  |
| U phase:       | 2,35 V per cell (20°C)               |
| I2 current:    | 1,2- 1,5 A (for 100Ah cell capacity) |

### Float charge

The voltage recommended for float charge, which will ensure the maximum life of OPzV cells is 2,25 V/cell  $\pm$ 1% at 20°C.