

# Application report for MPPT- Solar charge controller SMR250dt

## Description of the timerfunction

The timer of the SMR250dt is started through the dawn switch.

The dawn switch ist the solar module.

There are 2 timers. A morning timer and an evening timer.

The evening timer starts, when night comes or when the solar voltage is below 5V.

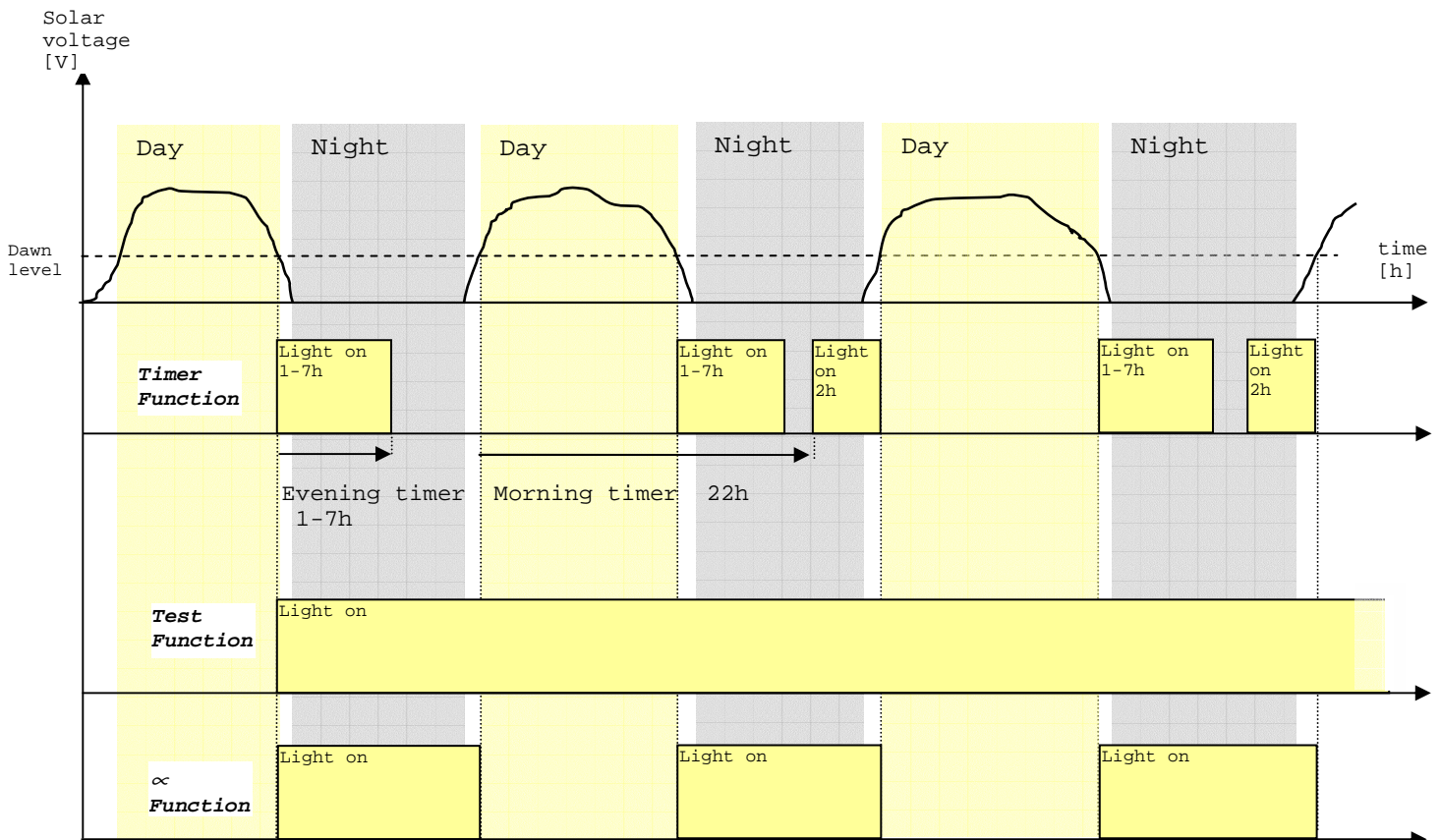
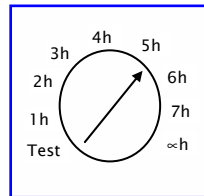
Then the consumer switches on (light on). The switch on time can be adjusted by a potentiometer, between 1-7 hours.

The morning timer starts at dawn, when the solar voltage is higher than 5V. It is fixed on 22 hours. This means that after 22h the consumer will be switched on (light on) until the next dawn begins, which will be about 2 hours later.

Then the consumer will be switched off again.

### Timer poti adjustment:

In Position **Test**, the consumer is day and night switched on. The deep discharge protection is always working. In other positions the consumer is on, between **1-7h** during night. At position  $\infty$ , the consumer is continuously on, during night. The dawn switch is still active.



Technical data are subject to change

## Connection description

For application of the SMR250dt within a streetlight system, the lamp has to be connected at the consumer output. This output is controlled via timer and dawn switch, as described above.

