



## SOLAR BATTERY CHARGER

**Trans Solar Technologies** introduces the most popular Solar Battery chargers for various applications

- AA size battery charger
- Protection from overcharging, ensure long life span of the battery
- Efficient use of excess energy of PV system
- Charge up to 4 AA size batteries
- LEDs display "Charging on" and "off-Switch"
- Holder for DIN rail mounting available



## Description

This is an innovative charger for AA –size rechargeable NiMeH and Ni Cd Batteries. It is specially designed for application in PV solar systems. In addition, it can be used together with any 12V Battery.

The AA size batteries are charged over a small constant current which is kept on a low level to prevent any overcharging. Additional protection is given by the additional voltage limitation. Because of the special voltage and current limitation, the batteries are well protected against overcharging even if they are kept for longer time in the charger. The gentle charging process guarantees long life for your AA size batteries. This system allows to charge up to four AA size batteries. Because each battery has got its own voltage limitation. It is possible to mix different types and sizes of rechargeable batteries. It is also possible to charge one, two, three or four batteries at a time.

A new innovative feature is the use of excess energy management. By using this feature only the excess energy which cannot be taken over by the system's main battery, is used to charge the AA batteries. This way it is possible to increase the performance of the system.



## Technical Specifications

Nominal Input Voltage (V)	12V
Input Voltage range	10,5V – 15V
Nominal Output Voltage	4 x 1,5V
Max. charging Current (@ 1,35V)	< 60mA
Charging time for 500mAh Battery	approx. 14h*
Charging time for 1000mAh Battery	approx. 28h*
Charging time for 1500mAh Battery	approx. 42h*
Charging time for 2500mAh Battery	approx. 70h*
Battery size	AA (in Europe called Mignon)
Battery types	NiMH / NiCd**
Battery capacity	500mAh - 2500mAh
Dimensions	80 x 100 x 32mm
Weight	
Temperature range	-20 to +50°C

\* When excess energy mode is set, only hours where excess energy is available should be counted. Excess energy can be seen from the LED

\*\* For environmental protection, we suggested using only NiMH battery.