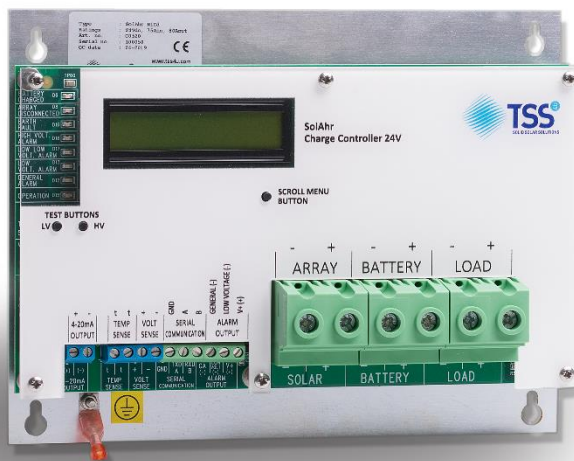




# SolAhr PWM Charge Controller

The charge controller is the beating heart of any solar energy system. The desire for perfection at TSS has resulted in the most solid and most efficient charge controller range for stand-alone solar energy systems. It is designed to have exceptional performance and lasts longer especially in the most harsh environments.



## Efficiency 99.75%

This reduces your overall system cost.

## LCD Display

Complete visualization of process parameters. In the blink of an eye your system's status is available and clear.

## Battery Management

By providing a constant float charge the controller reduces the number of cycles increasing the lifetime of your batteries.

## Cost Effective

The charge controller provides the most cost effective solution for small industrial solar energy systems.

Creating a solid and highly efficient solar energy system to keep you going ...Always!



## Technical Specifications

Typical specifications		SolAhr PWM Controller	
Input voltage capability	[Vdc]	24	
Solar array inputs	[No.]	1	
Max. continuous array input current	[A]	75	
Max. array input voltage	[V]	80	
Max. continuous battery charging current	[A]	80	
Max. battery input voltage	[V]	60	
Load output	[No.]	1	
Nominal load output current	[A]	80	
Maximum load output current	[A]	100 (1 minute)	
Peak load output current	[A]	500 (1 seconds)	
Operating efficiency @ full input and full load	[%]	99.75	
Terminal connector size (power)	[mm <sup>2</sup> ]	16	
Typical settings (24Vdc)		Lead Acid	Nicd (19 cells)
Load disconnect high system voltage (alarm)	[V]	30.5	31.5
Load re-connect high system voltage	[V]	28.8*	29.45
Boost @ 25 °C level	[V]	28.8*	N.A.
Float @ 25 °C level	[V]	28.2	28.5
Low battery voltage (alarm, non-essential load disconnect)	[V]	23.6	23
Load disconnect low voltage (alarm, essential load disconnect)	[V]	23	21.85
Load re-connect high system voltage	[V]	24.5	24.5
Earth fault alarm	[mA]	>100	>100
Temperature compensation		-3mV / °C / cell	N.A.

\* Boost and float voltage for Lead Acid are temperature dependent

General specifications	
Operating temperature	-20 °C to +85 °C
Storage temperature	-30 °C to +85 °C
Mounting	Indoor
Dimensions (H x W X D)	16.0 x 21.0 x 5.5 cm
Unit weight	0.55 KG
Communications	Modbus RTU Battery voltage transducer (passive)
Approvals	CE
Standards	IEC 61000-6-2 IEC 61000-6-4 IEC 60950-1