



Soltronic MPPT 7520a Maximum Power Point Tracker

The Soltronic MPP7520 Solar Battery Charger Unit with MPP technology is a highly developed MPPT solar charger unit for photovoltaic systems and is used to charge batteries. The unit has an intelligent MPP algorithm maximizing the energy generation of solar power generators. With an individually programmable digital output, a dangerous total discharge can be avoided.

The MPPT 7520 is perfect for the application in mountain huts, holiday homes, motorhomes, and on boats.

The charging process has been optimized to guarantee a long battery life and improved system performance. The robust casing made of steel and aluminum is protecting the charger unit well even in difficult mechanical environments.

The controller can easily be regulated by a pushbutton. All data can be collected on the large display. The separate digital output can be adjusted in a flexible way, and can also be used as a dimmer switch for the night light function.

Technical Data

➤ Maximum Energy Output

- High Efficiency of more than 97,5%
- Almost no power losses
- Identification of a number of performance points with part-shadowed or mixed PV-arrangements
- Excellent performance when solar radiation is low

➤ High Voltage Modules

- Enables the application of solar modules with an idling performance of up to 75 Volts or serial connection of 75 V modules.

➤ Lower System Costs

- Almost as cheap as a Voltage Stabilizer, but with better performance
- A great alternative for PV systems up to 600 Wp
- By using thin film modules, or modules which could normally be used for network supply, more costs can be reduced at higher energy output.

➤ Programmable Total Discharge Protection

- Separate and individually programmable digital output to connect an external relay for load shedding.

➤ Robust steel casing with a great cooling effect.

- To keep your controller working even in a high temperature environment, we included two cooling elements which will easily conduct surplus heat.

➤ Extremely reliable

- Powerful electronics and modern software guarantee a high rate of reliability and long durability.

➤ Easy to program

- Simple adjustment of the pushbuttons directly at the unit with the help of a large display. No further instruments required.

➤ Reserve Energy

- The innovative charging system of the MPP7520 guarantees longer reserve energy. The additional service tool for lead acid batteries avoids dangerous layered arrangement of acids.

➤ Status Bar on the Display

- The easily readable large LCD display informs you about controller and system data in an easy and quick way.

LCD Display

- Battery Charge State via Bar Display
- Battery Voltage
- Charging Current
- Solar Generator Voltage
- Battery Temperature (external sensor)
- Cooling Element Temperature
- Various Error Messages
- Parameterization
- Service



Electrical Data		Battery	
Efficiency	97,5%	Types of Batteries	Lead Acid, AGM, Gel
Nominal Voltage of Battery	12 or 24Volt	IUoU characteristic line	Main Charging, Trickle Charging, Maintenance Mode
Maximum Charging Current	20A	Battery charge end voltage	13 - 14.4V resp. 26 - 28.8V (steplessly variable)
Battery Voltage Range	7-36V	Temperature Compensation	-3mV/°C / Cell (20°C Temperature)
Max. PV Off-Load Voltage	75V	Temperature Range	-20°C bis +60°C
Typical Generator Output	12V max. 500W 24V max. 1000W More precise values available at our Calculator	Mechanical Data	
Digital Output	100mA	Measurements LxBxH	180x180x50mm
Consumption of Auxiliaries	27mA	Weight	2,1kg
		Connecting Terminals	16mm ² / 6AWG
Environment Data		Casing	Aluminum / Stahl
Working Temperature	-20°C to +60°C		
Storage Temperature	-30°C to +70°C	Options	
Humidity	99% non-condensing	Ext. Temperature Sensor	
		Various Power Relays	
Protective Functions		Certifications	
PV Input	Short-Circuit, Short, Polarity Reversal, Overload	CE-conform	
Reserve Battery Protection	Module Input Battery Input	RoHS-conform	
Overvoltage	PV-Generator	2 Years Warranty	
Excess Temperature			
Reverse Current			

This unit has been developed and produced in Germany.

Soltronic®

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