

## **The new PWM and MPPT charge controllers from Teleco Telair ensure solar energy is always under control**

***Four models to meet every need, capable of charging lead or lithium batteries and with 15-, 20- or 30-amp power ratings. Top-of-the-range models can also be monitored via the app***

*Lugo di Ravenna (11 December 2023)* – Maximising efficiency from solar energy and optimising battery charging are crucial when it comes to guaranteeing energy needs on campers and caravans. The latest family of Teleco Telair PWM and MPPT charge controllers provides all this... and more.

### **PWM controller**

The entry-level model in the Teleco Telair range is the SPC 20/1, a microprocessor-controlled 3-point PWM controller rated at 20 amps. Compared to previous models it has a new LED display that lets you monitor battery charge when it's connected to the solar panel.

The SPC 20/1 is a versatile controller that can be configured to charge both lead and lithium batteries (ternary or lithium-iron-phosphate). Just select the battery type you wish to manage via the main menu on the interface by using the keys under the display: quick and simple.

The front of the controller also has a dual USB port with a 1.5 A maximum output current so you can charge electronic devices such as smartphones or tablets.

### **MPPT controllers**

The rest of the Teleco Telair range consists of three models and is based on MPPT (Max Power Point Tracking) technology, which allows real-time tracking of the maximum power point of the solar panel, achieving a conversion efficiency of up to 98%.

All models have a large LCD display. This lets users monitor the operating data and the operating conditions of the entire charge system. In addition to providing real-time energy statistics from the MPPT controller, the main menu on the interface can be used to select the battery type (Gel, AGM, lead-acid and lithium) to be charged.

The MPPT SPC15/1 model has two 2-amp USB ports to charge electronic devices, while the MPPT SPC20/1B and MPPT SPC30/1B models have a Bluetooth connection that lets you use the Teleco App on your smartphone. The app lets you access information on power, voltage, current and energy statistics.

MPPT solar charge controllers also come with a remote temperature sensor that lets you gather battery temperature data and thus optimise battery management.

The Teleco Telair solar charge controller range has the following models:

- Telair SPC20/1 – 20A PWM charge controller
- Telair MPPT SPC15/1 – 15A MPPT charge controller
- Telair MPPT SPC20/1B – 20A MPPT charge controller
- Telair MPPT SPC30/1B – 30A MPPT charge controller

#### Telair SPC20/1 technical specifications

<b>System voltage</b>	12 V / 24 V with automatic recognition
<b>Rated charge current</b>	20 A
<b>Rated discharge current</b>	10 A
<b>USB output</b>	2 x 5V / 2 A max
<b>Standby current</b>	<10 mA
<b>Operating temperature</b>	-35 °C / +60 °C
<b>Dimensions</b>	133 x 70 x 35 mm
<b>Weight</b>	140 g

*The voltages shown in the table refer to 12V applications. In the case of 24V, multiply the values by 2*

#### Telair MPPT charge controllers technical specifications

Technical data	MPPT SPC15/1	MPPT SPC20/1	MPPT SPC30/1
<b>System voltage</b>	12V	Automatic recognition 12 V / 24 V	
<b>Maximum charge current</b>	15 A	20 A	30 A
<b>Battery type</b>	Lead (Gel, AGM, flooded lead-acid battery), lithium (pre-defined Gel setting)		
<b>Maximum input power</b>	200 W	260 / 520 W	390 / 780 W
<b>Output current</b>	10 A	20 A	30 A
<b>USB interface</b>	2 x 5 V / 2 A max	No	
<b>Wireless</b>	No	Yes	
<b>Maximum tracking efficiency</b>	>99.9 %		
<b>Maximum charge conversion</b>	97.5%	98%	
<b>Dimensions</b>	189 x 96 x 53 mm	189 x 182 x 58 mm	189 x 182 x 64 mm
<b>Weight</b>	420 g	1 kg	1.3 kg

*The voltages shown in the table refer to 12V applications. In the case of 24 V, multiply the values by 2*

### **About the Teleco Group**

*The TELECO GROUP is a group of leading companies in the recreational vehicle industry, based in Northern Italy. Teleco SpA designs, manufactures and markets a complete range of devices and equipment for terrestrial and satellite TV signal reception, televisions, satellite navigation devices, cameras and monitors, multimedia systems and photovoltaic modules. Telair Srl is specialised in the development and manufacture of air conditioners, generators and inverters. The Group's products are marketed throughout Europe where a widespread support network is available. The TELECO GROUP has two subsidiaries in France and Germany: Teleco GmbH and Teleco sas.*

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