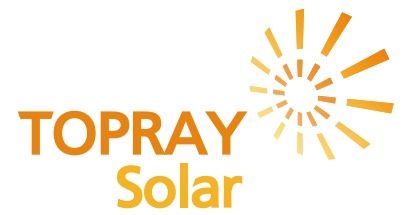
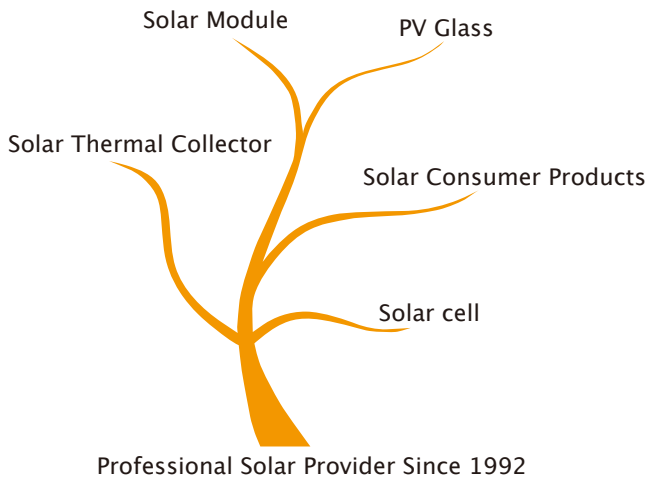


# TPS-1012 10A/12V solar charge controller



## Not Your Average Solar Provider

### Our Products Categories



## Electrical Characteristics



Figure 1 Product Feature

①	Mounting Hole $\Phi 4.5$	⑥	Button
②	PV Terminals	⑦	Battery status LED indicator
③	Battery Terminals	⑧	Load status LED indicator
④	Load Terminals	⑨	Charging status LED indicator
⑤	USB Output Port		

## Overview

This series controller is a PWM charge controller with USB output that adopts the most advanced digital technique. It's an easy operation and cost efficient controller featured as:

- 3-Stage intelligent PWM charging: Bulk, Boost/Equalize, Float
- Support 3 charging options: Sealed, Gel, and Flooded
- Battery status LED indicator can indicates battery situation
- Battery temperature compensation function
- The USB will provide power supply that can charge for electronic equipment
- Battery type and load output can be set via button
- Extensive Electronic protection

### Technical Specifications

Item	TPS-1012
Nominal system voltage	12VDC
Rated charge current	10A
Rated discharge current	10A
Battery input voltage range	8V ~ 16V
Max. PV open circuit voltage	30V
Self-consumption	12V $\leq$ 5mA; 24V $\leq$ 7mA
Charge Circuit Voltage Drop	$\leq$ 0.13V
Discharge Circuit Voltage Drop	$\leq$ 0.17V
USB Output Port	5VDC/1.2A
Working environment temperature	-35 °C ~ +55 °C
Humidity	$\leq$ 95% N.C.
Overall dimension	120.3x67x21.8mm
Mounting dimension	111.5mm
Mounting hole size	$\Phi 4.5$
Terminals	12 AWG /4mm <sup>2</sup>
Net weight	0.10kg

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