



EPSOLAR innovation keeps you

One Step Ahead



EPHC-5/10

SOLAR CONTROLLER FOR SOLAR HOME SYSTEMS

EPSOLAR's high quality and reliability is now available in a low cost solar controller. The EPHC Controller is ideal for rural electrification systems. It provides many features and benefits.

BENEFITS OF A SOLAR CONTROLLER

It is important to include a controller in a solar power system.

- **Reduce Cost of Battery Replacements**

The low voltage disconnect will increase battery life. The loads are automatically disconnected when the battery is low and automatically reconnected after the battery is recharged.

Complete charging will increase battery life and storage capacity.

The controller will maximize the amount of solar energy into the battery and avoid drying out the battery.

- **Provides Useful Information**

LEDs display status information and battery level which helps the user to battery operate the solar power system.

ADVANTAGES OF THE EPHC CONTROLLER

EPHC controller has many advantages compared to other controllers:

- **Low Cost**

The EPHC was specifically designed to meet the needs of the rural electrification market. The low cost resulted from using the latest electronic technology and high volume manufacturing.

- **High Reliability**

EPSOLAR is a dynamic manufacturer of solar charge controllers. All our controllers are designed for high quality and high reliability. The EPHC controller has a low failure rate and will last a long time, and got very good feedback from customers until now.

- **Electronic protections**

The EPHC has build-in electronic fused that do not require replacements. Any wiring mistakes during installation will not damage the controller.

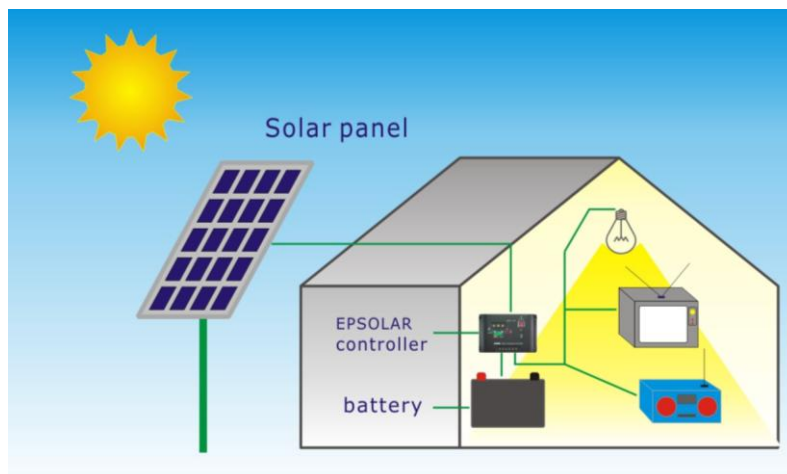
- **Tropicalization**

The EPHC electronics are protected with moisture-tight coating(APL lacquer), minimizing damage from humidity and from nesting insects.

- **Easy to use**

The EPHC controller is fully automatic and requires no adjustments or user selections.

EPHC SOLAR CONTROLLER



TECHNICAL INFORMATION

RATINGS: 12/24 VOLT auto-work

EPHC-5: 12 VOLT or 12/24 VOLT auto work, 5 AMPS

EPHC-10: 12 VOLT or 12/24 VOLT auto work, 10 AMPS

Regulation point: 14.4 Volt

Low voltage disconnect: 11.1 Volt

Low voltage Reconnect: 13.1 Volt

Type of Charging: series PWM

4 stages Bulk, PWM, Boost and Float

Electronic protections: short circuit and over current

-solar and load

Reverse polarity-solar, load & battery

Reverse current at night

High voltage-load

Lightning-solar, load, battery

Tropicalization: circuit board-conformal coated

Terminals-corrosion protected

LED indications: Green charging

Green-Yellow-Red battery levels

Red low voltage warning and disconnect

Green-Yellow-Red battery levels

All 3 LEDs blink-to show mistakes

Self-consumption: 6mA maximum

Dimension: 140x90.5mm

Terminals: for wire sizes to 2.5mm²

Weight: 250g

Temperature: -35°C to +55°C

Humidity: 100% non-condensing

Enclosure: IP 22

Case: ABS

Compliance: CE world Bank

WARRANTY: One year warranty period. Contact EPSOLAR or your authorized distributor for complete terms.



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