



## PS45-7 (Sola-Prod 15A MPPT Controller)

The PS45-7 controller is equipped with MPPT ((Maximum Power Point Tracking) technology which enables it to increase charge and power efficiency by up to 20% over PWM controllers by making use of the solar modules' maximum available power and matching this to the available battery bank

### Front View

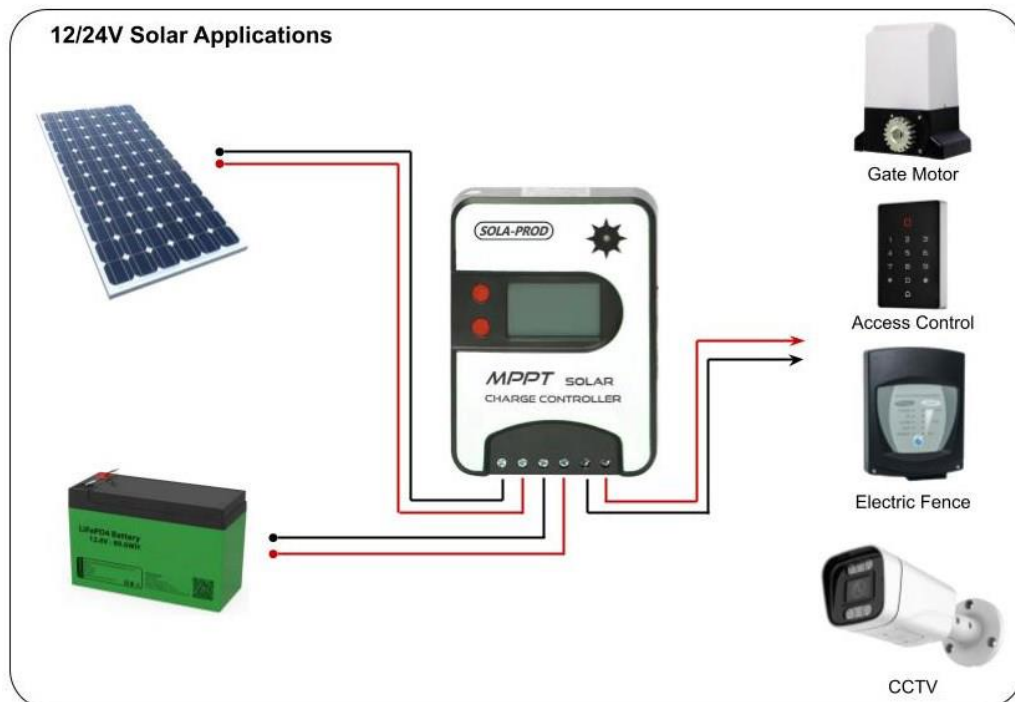


## Features

- MPPT Technology \*
- 15A Rated Current
- 12/24V Supported
- Up to 75V Solar Input
- 98% Maximum Conversion Efficiency
- Supports LiFePO4 batteries
- Programmable Load Working Modes
- Short Circuit, Reverse Polarity, Overcharge, Overload, Overvoltage and Overcurrent protection
- LCD Display

*\* MPPT - or maximum power point tracker is an electronic DC to DC converter that optimizes the match between the solar array (PV panels), and the battery bank or utility grid.*

## Application



Regal recommends the use of the Securi-Prod Lithium Iron Phosphate batteries

<b>20AH</b>	BA50-6
<b>50AH</b>	BA50-09
<b>100AH</b>	BA50-12

## Technical Specifications

PS45-7	
System Voltage	12/24VDC Auto
Working voltage range	8~32V
Rated Battery Current	15A
Rate Load Current	15A
Max PV open circuit voltage	75V (Min. working temperature) 70V@25°C
Maximum PV Input Voltage	12V 200W 24V 400W
Pmax tracking accuracy	99.5%
Self-Consumption	<23mA
Battery type support	SLA/Gel/Flooded/Lithium
USB output	2 x 5VDC/2A
Connection Terminal	10mm <sup>2</sup> / 8AWG
Nett Weight	630g
Dimensions (L x W x H) mm	165 x 123 x 46
Working Temperature	-20°C to +50°C
Storage temperature	-35°C to +80°C
Humidity	<95% NC
Enclosure	IP32

## Packaging List

Item	Quantity
PS45-7	1
User Manual	1