



MSIP 20/30

SOLAR CONTROLLER

FOR SOLAR POWER SYSTEM WITH DIGITAL AND SYMBOL DISPLAY

MORNING SOLAR MSIP is the second generation with high quality and reliability.

- Adds new features and protections using highly advance technology
- Provides longer battery life and improved system performance
- Sets new standards for reliability and self-diagnostics

STANDARD FEATURES:

Versions available: 20, 30amp

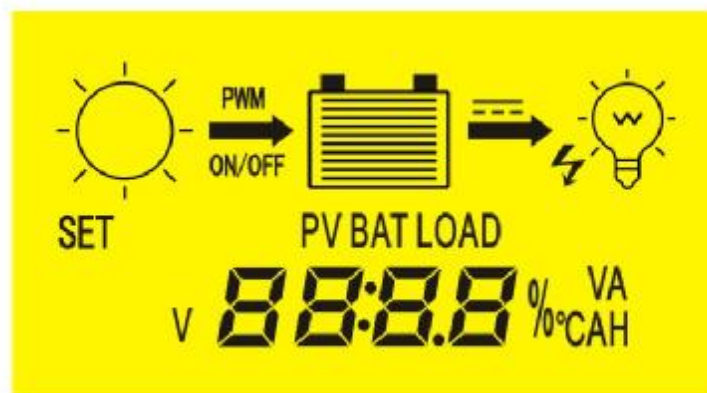
12/24 volt auto-work negative or positive ground

- Microprocessor which is made in USA
- PWM or ON/OFF series battery charging options
- State of charge (SOC) battery regulation
- Battery Ah setting, boost charging, equalising charging, float charging
- Automatic load reconnection, manual load switch
- Automatic selection of voltage (12 V / 24 V)
- Temperature compensation
- LCD display: SOC as a fuel gauge, all system parameters in digital value, system status as symbols
- Full circuit protection, electronic fuse • Field adjustable parameters by four buttons
- **Load control option: ON/OFF, Dusk-to-Dawn, On + setting hours, setting time ON/OFF. (For type -II)**
- **Real clock display (For type -II)**

ELECTRONIC PROTECTIONS:

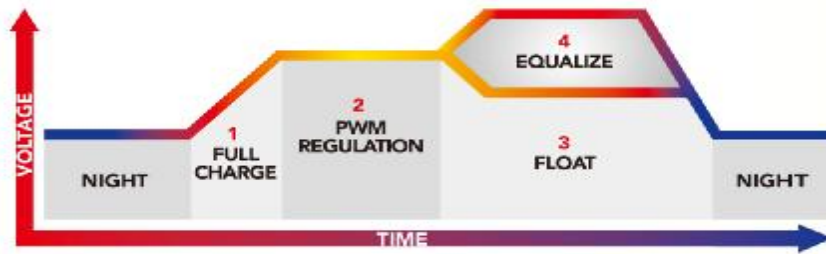
- Short circuit-solar and load
- Overload-solar and load
- Reverse polarity, reverse current at night
- High voltage disconnect
- Loads protected from voltage spikes
- Automatic recovery with all protections

MSIP SOLAR CONTROLLER(LCD DISPLAY)

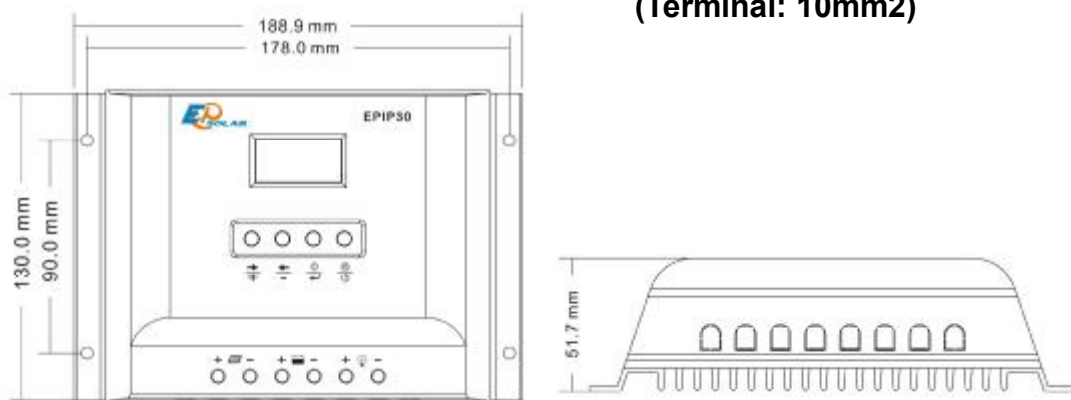


OPTIMIZED BATTERY CHARGEING:

The MSIP controller has 4 stages of charging to provide increased battery capacity and life.



MECHANICAL SPECIFICATIONS:



TECHNICAL INFORMATION:

	20 Amp	30Amp
Rated solar input	20A	30A
Rated load	20A	30A
System voltage	12/24V	12/24V
Regulation Voltage	14.4V	14.4V,
Float	13.4V	13.4V
Equalization	14.8V	14.8V
Load Disconnect	11.1V	11.1V
Load Reconnect	12.6V	12.6V
Temp.Comp.(mV/°C)	-30mV	-30mV
Self-consumption	≤30mA	≤30mA
Operation temperature:	-35 to +55	
Compliance:	CE world Bank	
Note: values are for 12V. Use 2X for 24V.		

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