SOLAR CONTROLLER WITH TWO BATTERY CHARGING

EPSOLAR’s duo-battery charging solar controller, For RVs, Caravans, and boats.

Adjust options:
1. Battery type selection.
2. Two battery charging priority (from 0-100%)
3. Charging frequency selection.

MODEL NO: EPIP20-DB
EPIP20-DB: 12 VOLT or 12/24 VOLT auto work, 10 AMPS
EPIP20-DB: 12 VOLT or 12/24 VOLT auto work, 20 AMPS

<table>
<thead>
<tr>
<th>Setpoint</th>
<th>Sealed battery</th>
<th>Flooded battery</th>
<th>Gel battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulation voltage</td>
<td>14.2V</td>
<td>14.4V</td>
<td>14.6V</td>
</tr>
<tr>
<td>Boost voltage</td>
<td>14.4V</td>
<td>14.6V</td>
<td>14.8V</td>
</tr>
<tr>
<td>Float voltage</td>
<td>13.7V</td>
<td>13.7V</td>
<td>13.7V</td>
</tr>
<tr>
<td>Maximum solar voltage</td>
<td>30V (or 55V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery voltage range</td>
<td>1-15V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boost time</td>
<td>30 minutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self-consumption</td>
<td>4mA at night, 10mA at charging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meterbus connection</td>
<td>8-pin RJ-45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp. compensation</td>
<td>-30mV/12V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminals</td>
<td>4mm2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>-35°C to +55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: all the data is for 12V, for 24V, please use 2x.
**Solar controller for solar home system with meter (NEW)**

Solar home system controller, with remote meter. It provides long distance surveillance, suitable for rural communications system, traffic system, etc.

**MODEL NO.: EPIP20-D**
EPIP20D 10: 12 VOLT or 12/24 VOLT auto work, 10Amps  
EPIP20D20: 12 VOLT or 12/24 VOLT auto work, 20Amp

- Regulation point: 14.4 Volt  
- Low voltage disconnect: 11.1 Volt  
- Low voltage Reconnect: 12.5 Volt  
- Self-consumption: 6mA maximum  
- Electronic protections  
- Terminals: 6mm2  
- Type of Charging: series PWM  
- Temperature Compensation: -30mV/°C/12V  
- Temperature: -35°C to +55°C
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.

MODEL NO: EPHC
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: 12.5 Volt
Self-consumption: 6mA maximum
Electronic protections
Terminals: for wire sizes to 2.5mm²
Type of Charging: series PWM
Temperature: -35°C to +55°C
Weight: 250g
Dimension: 140x89x27.2mm
Compliance: CE
SOLAR CONTROLLER WITH FREE MAINTENANCE (NEW)
The MF series controller provides automatic lighting control function, and its 100% water-proof, ensure longer lifetime. Good for humidity area, such as outside pathway lighting, parking area, but station, boat, etc.

- Microcontroller digital accuracy
- PWM charge mode & state of charge (SOC)
- Fully automatic operation & Electronic protections
- Detects day and night using the PV array, timer setting
- Double digital LED display, numbers equal to timer setting
- Temperature compensation, with external temperature sensor
- Water proof, IP66

MODEL NO:  EPRC-MF
EPRC-MF5:  12 VOLT or 12/24 VOLT auto work, 5 AMPS (for PV and load)
EPRC-MF10:  12 VOLT or 12/24 VOLT auto work, 10 AMPS (for PV and load)

- Equalisation voltage: 14.8 Volt
- High voltage disconnect (HVD): 14.4
- Float voltage: 13.6 Volt
- Low voltage disconnect (LVD): 11.1 Volt
- Low voltage reconnect (LVR): 12.6 Volt
- Self-consumption: 6mA maximum
- Temperature Compensation: -30mV/℃/12V
- Terminals: for wire sizes to 6mm2
- Temperature: -35℃ to +55℃
- Compliance: CE
SOLAR CONTROLLER FOR SOLAR STREET LIGHT SYSTEMS

It’s the second generation of the EPRC solar controller. It provides automatic lighting control function. Good for street and pathway lighting, parking area, bus station and etc.

- Microcontroller digital accuracy
- PWM charge mode & state of charge (SOC)
- Fully automatic operation & Electronic protections
- Detects day and night using the PV array, timer setting
- Double digital LED display, numbers equal to timer setting
- Temperature compensation, with external temperature sensor
- Big terminals, big distance between terminals.

MODEL NO: EPRC-ST
EPRC-ST5: 12 VOLT or 12/24 VOLT auto work, 5 AMPS (for PV and load)
EPRC-ST10: 12 VOLT or 12/24 VOLT auto work, 10 AMPS (for PV and load)

- Equalisation voltage: 14.8 Volt
- High voltage disconnect (HVD): 14.4 Volt
- Float voltage: 13.6 Volt
- Low voltage disconnect (LVD): 11.1 Volt
- Low voltage reconnect (LVR): 12.6 Volt
- Self-consumption: 6mA maximum
- Temperature Compensation: -30mV/°C/12V
- Terminals: for wire sizes to 6mm²
- Temperature: -35°C to +55°C
- Dimension: 133x69.9x33.5mm
- Compliance: CE
SOLAR CONTROLLER FOR SOLAR HOME SYSTEMS
It is the second generation of the small solar controller, more reliable, and economical. It is ideal for rural electrification system.

Microcontroller digital accuracy
PWM charge mode & state of charge (SOC)
Fully automatic operation & Electronic protections
Temperature Compensation: -30mV/℃/12V
Big terminals, big distance between terminals.

MODEL NO: EPHC-ST
EPHC-ST5: 12 VOLT or 12/24 VOLT auto work, 5 AMPS (for PV and load)
EPHC-ST10: 12 VOLT or 12/24 VOLT auto work, 10 AMPS (for PV and load)

Equalisation voltage: 14.8 Volt
High voltage disconnect (HVD): 14.4 Volt
Float voltage: 13.6 Volt
Low voltage disconnect (LVD): 11.1 Volt
Low voltage reconnect (LVR): 12.6 Volt
Self-consumption: 6mA maximum
Temperature Compensation: -30mV/℃/12V
Terminals: for wire sizes to 6mm²
Temperature: -35℃ to +55℃
Dimension: 133x69.9mm
Compliance: CE
SOLAR CONTROLLER
FOR SOLAR SYSTEM WITH AUTOMATIC LIGHTING CONTROL AND TIMER FUNCTIONS

EPSOLAR’s high quality and reliability is now available in a low cost solar controller. The EPRC Controller is designed with a microcontroller for automatic lighting control functions.

MODEL NO: EPRC
EPRC-5: 12 VOLT or 12/24 VOLT auto work, 5 AMPS
EPRC-10: 12 VOLT or 12/24 VOLT auto work, 10 AMPS

Regulation point: 14.4 Volt
Low voltage disconnect: 11.10 Volt
Low voltage Reconnect: 12.5 Volt
Self-consumption: 6mA maximum
Electronic protections
Terminals: for wire sizes to 2.5mm²
Type of Charging: series PWM
Temperature: -35 ℃ to +55 ℃
Weight: 250g
Dimension: 140x90.5x27.2mm
Compliance: CE
SOLAR CONTROLLER
FOR SOLAR SYSTEM WITH AUTOMATIC LIGHTING CONTROL AND TIMER FUNCTIONS

EPSOLAR’s high quality and reliability is now available in a low cost solar controller. The EPDC-2L combines EPRC design with two output terminals. EPDC controller is designed with a microcontroller for automatic lighting control functions.

MODEL NO:   EPDC-2L
RATINGS:   12/24 VOLT auto-work
EPDC-2L-5:  12 VOLT or 12/24 VOLT auto work, 5 AMPS
EPDC-2L-10: 12 VOLT or 12/24 VOLT auto work, 10 AMPS

Regulation point:  14.4 Volt
Low voltage disconnect:  11.10 Volt
Low voltage Reconnect:  12.5 Volt
Self-consumption:  6mA maximum
Electronic protections
Terminals:  for wire sizes to 2.5mm²
Type of Charging:  series PWM
Temperature:  -35°C to +55°C
Weight:  250g
Dimension:  126x89x27.2mm
Compliance:  CE
SOLAR CONTROLLER
FOR SOLAR SYSTEM WITH AUTOMATIC LIGHTING CONTROL AND TIMER FUNCTIONS

EPSOLAR’s high quality and reliability is now available in a low cost solar controller. The EPRC-MT combines EPRC design with dual timer function. Controller is designed with a microcontroller for automatic lighting control functions.

MODEL NO: EPRC-MT
RATINGS: 12/24 VOLT auto-work
EPRC-MT-5: 12 VOLT or 12/24 VOLT auto work, 5 AMPS
EPRC-MT-10: 12 VOLT or 12/24 VOLT auto work, 10 AMPS

Regulation point: 14.4 Volt
Low voltage disconnect: 11.10 Volt
Low voltage Reconnect: 12.5 Volt
Self-consumption: 6mA maximum
Electronic protections
Terminals: for wire sizes to 2.5mm²
Type of Charging: series PWM
Temperature: -35°C to +55°C
Weight: 250g
Dimension: 140x90.5x27.2mm
Compliance: CE
SOLAR CONTROLLER

FOR SOLAR SYSTEM WITH AUTOMATIC LIGHTING CONTROL AND TIMER FUNCTIONS

EPSOLAR’s high quality and reliability is now available in a low cost solar controller. The EPIP20-H Controller is designed for medium solar power system.

MODEL NO: EPIP20-H
EPIP20-H-15: 12 VOLT or 12/24 VOLT auto work, 15 AMPS
EPIP20-H-20: 12 VOLT or 12/24 VOLT auto work, 20 AMPS

Regulation point: 14.4 Volt
Low voltage disconnect: 11.10 Volt
Low voltage Reconnect: 12.5 Volt
Self-consumption: 10mA maximum

Electronic protections
Terminals: for wire sizes to 6mm²
Type of Charging: series PWM
Temperature: -35°C to +55°C
Weight: 250g
Dimension: 141*96*34mm
Compliance: CE
**SOLAR CONTROLLER**

**FOR SOLAR SYSTEM WITH AUTOMATIC LIGHTING CONTROL AND TIMER FUNCTIONS**

EPSOLAR’s high quality and reliability is now available in a low cost solar controller. The EPIP20-R Controller is designed with a microcontroller for automatic lighting control functions.

**MODEL NO:** EPIP20-R  
EPIP20-R-15: 12 VOLT or 12/24 VOLT auto work, 15 AMPS  
EPIP20-R-20: 12 VOLT or 12/24 VOLT auto work, 20 AMPS

- **Regulation point:** 14.4 Volt  
- **Low voltage disconnect:** 11.10 Volt  
- **Low voltage Reconnect:** 12.5 Volt  
- **Self-consumption:** 10mA maximum  
- **Electronic protections**  
- **Terminals:** for wire sizes to 6mm²  
- **Type of Charging:** series PWM  
- **Temperature:** -35°C to +55°C  
- **Weight:** 250g  
- **Dimension:** 141*96*34mm  
- **Compliance:** CE
FOR SOLAR POWER SYSTEM WITH DIGITAL AND SYMBOL DISPLAY

EPSOLAR EPIP 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-diagnostic.

MODEL NO: EPIP40
EPIP40-20: 12/24 VOLT auto work, 20 AMPS
EPIP40-30: 12/24 VOLT auto work, 30 AMPS

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
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)

Regulation point: 14.4 Volt
Low voltage disconnect: 11.10 Volt
Low voltage Reconnect: 12.5 Volt
Self-consumption: 10mA maximum
Terminals: for wire sizes to 10mm²
Temperature: -35°C to +55°C
Weight: 250g
Dimension: 188.9x130x51.70mm
Compliance: CE
SOLAR CONTROLLER
FOR SOLAR POWER SYSTEM WITH DIGITAL AND SYMBOL DISPLAY

EPSOLAR EIP20-LT provides similar function as the EPIP series solar controller, but with modifications function. The symbols on LCD offers better and direct performance. More reliable and economical.

Work mode:
ON/OFF MODE
Lighting ON + exact time OFF
Exact time ON/OFF
Exact time ON/OFF (option: for four season modification)

MODEL NO:  EIP20-LT
EIP20-LT-15:  12 VOLT OR 12/24 VOLT auto work, 15AMPS
EIP20-LT-20:  12 VOLT OR 12/24 VOLT auto work, 20AMPS

Regulation point:  14.4 Volt
Low voltage disconnect:  11.10 Volt
Low voltage Reconnect:  12.6 Volt
Self-consumption:  6mA maximum
Terminals:  for wire sizes to 6mm2
Temperature:  -35°C to +55°C
Weight:  500g
Dimension:  133x89x41.6mm
Compliance:  CE
SOLAR CONTROLLER

FOR SOLAR POWER SYSTEM WITH DIGITAL AND SYMBOL DISPLAY

EPSOLAR EIPiP 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.

MODEL NO:   EPIP602
EPIP602:    12/24 or 24/48 VOLT auto work, 30, 40,50 or 60 AMPS

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
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)

Regulation point:       14.4 Volt
Low voltage disconnect: 11.10 Volt
Low voltage Reconnect: 12.5 Volt
Self-consumption: 10mA maximum
Terminals: for wire sizes to 10mm2
Temperature: -35°C to +55°C
Weight: 1000g or 2000g
Dimension: 197.3*156mm
Compliance: CE
SOLAR CONTROLLER

FOR SOLAR POWER SYSTEM WITH DIGITAL AND SYMBOL DISPLAY

EPSOLAR EIPIP 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

MODEL NO:  EPIP603
EPIP602:  12/24 or 24/48 VOLT auto work, 30, 40,50 or 60 AMPS

Microprocessor which is made in USA
PWM or ON/OFF series battery charging options
State of charge (SOC) battery regulation
RS232 communication relay, which can download data during the last 30 days.
Battery Ah setting, boost charging, equalising charging, float charging
Automatic load reconnection, manual load switch
Temperature compensation (with remote digital temperature sensor 5m, RS232 cable 1.5m, PC software)
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

Regulation point:  14.4 Volt
Low voltage disconnect: 11.10 Volt
Low voltage Reconnect: 12.6Volt
Self-consumption: 40mA maximum
Terminals:  for wire sizes to 10mm²
Temperature:  -35°C to +55°C
Weight: 1000g or 2000g
Dimension:  188.9x158.5mm
Compliance: CE
SOLAR CONTROLLER FOR SOLAR POWER STATION

EPIP-4820IDC : 24V, 48V, 100A, 200A

Main features:
With independent control for each array, self-diagnostic, and alarm.
Provide working control for other backup generator.
Accurate digital temperature and voltage, signal collects, ensure precise calculation and control, prolong the battery lifetime.
Easy operation, LCD display module+4 keys
Control circuit is completely separated from main circuit with high anti-jamming ability
Can be equipped with RS232/485 joint or modem for remote surveillance and control PC monitoring software

System terminals:
All the terminals are inside of the controller.
4 arrays terminals for solar panel
1 terminal for battery
1 terminal for load
1 9-pin tel. terminals, for computer or modem.
2 output for inverter signal, isolate the switch output signal.
2 input for inverter signal, isolate the switch input signal.
1 terminal for temperature sensor.