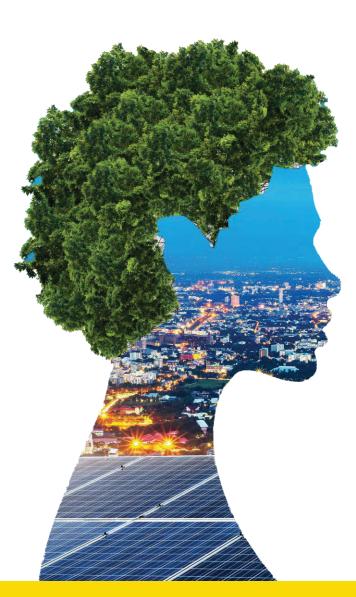




EASTMAN WORLD

Welcome to Eastman World - Your Global Partner in Energy Solutions!





Eastman Introduction Founded in 2006

Established in 2006, Eastman Auto & Power Limited is a well-known name in the field of solar energy, energy storage, and power electronics, boasting a USD 300 million revenue and a dedicated workforce of over 3,000 professionals. Building on the group's decades-long success and maintaining the trust of our partners, Mr. Jagdish Rai Singal ventured into the future of energy with Eastman Auto & Power Limited. Today, the business spans over 25 countries across Asia, Africa, Middle East, and Europe and provides the world with cutting-edge products that have set new benchmarks in their respective segments. Driven by innovation, we continually set industry standards, ensuring uninterrupted power supply for residential, commercial, and industrial applications.

Our global solar distribution business provides reliable and high-quality solar solutions, including solar inverters, solar panels, solar batteries (carbon, gel, lithium, and tubular), solar pump inverters, solar charge controllers, and more. Our products offer a range of solutions to help you make the switch to clean energy. With us as your unwavering partners, we forge a sustainable future, amplifying global excellence through transformative products and services.



CONTENT SOLAR CHARGE CONTROLLERS

MPPT SCC

| 1. ES-15A-SUN 75V | 04 |
|----------------------|----|
| 2. ES-20A SUN 75V | 04 |
| 3. ES-30A SUN 75V | 04 |
| 4. ES-40A SUN 75V | 04 |
| 5. ES-30A SCC 100V | 06 |
| 6. ES-40A SCC 100V | 06 |
| 11. ES-45A SCC 120V | 06 |
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| 7. ES-30A SCC 150V | 06 |
| 9. ES-40A SCC 150V | 06 |
| 10. ES-50A SCC 150V | 06 |
| 12. ES-60A SCC 150V | 06 |
| 13. ES-80A SCC 200V | 09 |
| 14. ES-100A SCC 200V | 09 |
| | |





Safety

- Over Charging & Discharging Protection
- Overload Protection
- Short Circuit Protection
- Battery Over-Voltage Protection
- Temperature Compensation
- Over Temperature Protection
- Thunder Protection
- Solar Reverse Connected Protection
- EMC Protection
- Battery Reverse Connected Protection
- Power Limited Protection
- Reverse Flow of Current Protection
- Solar Short Circuit Protection
- Overheating Power Reduction Protection
- Solar Over-Voltage Protection

Applications

Solar RV, Household Solar Energy, Solar Street Lamp, Solar Power Generator, Solar Boat.

Mechanical Size

| harge and load current Size (L×W×H)mm | 15A 165*123*46 | 20A 195*123*46 | 30A 205*157*53 | 40A 256*157*53 | Elestman Solar |
|--|-------------------|-------------------|-------------------|-------------------|---------------------------------|
| Mounting hole size | | | | | |
| Weight(g) | 0.63Kg | 0.82Kg | 1.2Kg | 1.5Kg | |
| Terminal scale | 10mm²/ | /8AWG | 16mm² | /6AWG | MPPT SOLAR CHARGE CONTROLLER |

MPPT SOLAR CHARGE CONTROLLER 15A / 20A / 30A / 40A

Introduction

Engineered to maximize energy output from your panels, these controllers utilize cutting-edge technology to ensure optimal performance in any environment. Easy to use and highly efficient, they're your gateway to harnessing clean energy effortlessly.

Product Features

- Advanced MPPT technology, fast and stable track the Maximum Power Point, tracking accuracy 99.5%.
- Adopt Synchronous Rectifier Technology, significantly improve the transfer efficiency of circuit, maximum 98.5%.
- 12/24VDC system voltage automatic recognition.
- Humanized LCD displaying, dynamic display operation data and working state.
- Temperature Compensation Function.
- Accumulation function of charging and Discharging
- Wide MPPT Operating Voltage Range



Product Specifications

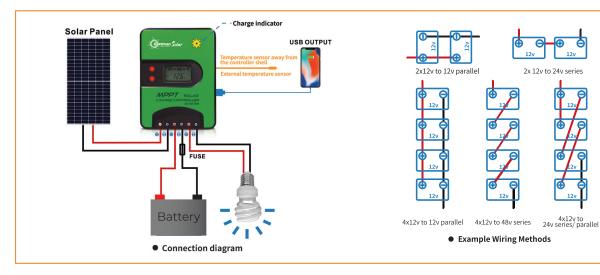
| MODELS | ES-15A SUN 75V | ES-20A SUN 75V | ES-30A SUN 75V | ES-40A SUN 75V | | | |
|---------------------------------|-----------------------------------|---|-------------------------------|--------------------|--|--|--|
| System Voltage | 12V/24V DC auto | | | | | | |
| Working voltage range | 8~32V | | | | | | |
| Max.PV open circuit voltage | 75V (Min.working temp) 70V (25°C) | | | | | | |
| MPPT voltage range | (Battery voltage+2V) ~65V | | | | | | |
| Discharge circuit voltage drop | | ≤0.2 | 25V | | | | |
| Self-consumption | | <23 | mA | | | | |
| Rated charge current | 15A | 20A | 30A | 40A | | | |
| Rated discharge current | 15A | 20A | 30A | 40A | | | |
| Max.PV input power | 200W/12A 400W/24V | 260W/12A 520W/24V | 390W/12A 780W/24V | 520W/12A 1040W/24V | | | |
| Grounding | | / | / | | | | |
| Battery type | | Sealed (Default)/C | Gel/Flood/Lithium | | | | |
| LVD ** | | 11.0V ADJ 9V12V | ; ×2/24V ; ×4/48V | | | | |
| LVR X* | | 12.6V ADJ 11V13.5V | √;×2/24V;×4/48V | | | | |
| Float Voltage * * | | 13.8V ADJ 13V 15 | V;×2/24V;M/48V | | | | |
| Boost Voltage X* | 14.4V ADJ 13V ⁻ | 14.4V ADJ 13V17V ; ×2/24 ; ×4/48V battery voltage less than 12.6v auto boost 2hours | | | | | |
| Battery Over Voltage Protection | | 16.5V ; ×2/24 | 4V;×4/48V | | | | |
| USB Output | | 5VDC/2 | A 2PCS | | | | |
| Temperature Consumption# | | For 12Vsystem:-24m | //°C ; ×2/24V ; ×4/48V | | | | |
| Relative Humidity | | ≤95% | , N.C. | | | | |
| Working Temperature | -20 | 0°C∼+50°C°C(Product can v | vork continuously at full loa | ad) | | | |
| LCD temperature range | | -20°C~ | +70°C | | | | |
| Waterproof grade | | IP | 32 | | | | |
| Mounting hole size | | ф5r | nm | | | | |
| Terminals | 10mm²/ | /8AWG | 16mm² | 2/6AWG | | | |
| Weight | 0.63Kg | 0.82Kg | 1.2Kg | 1.5Kg | | | |
| Overall dimension (mm) | 165*123*46mm | 195*123*46mm | 205*157*53mm | 256*157*53mm | | | |

#when battery type is setted to Lithium battery, Temperature consumption is 0,unchangeable.

X Above the parameters are in 12V system at 25°C, twice in 24V system and quadruple in 48V system.

*The default value is set based on the lead-acid battery. For other battery type please refer to the manual.

Connection Diagram



MPPT SOLAR CHARGE CONTROLLER

50A 150V, 60A 150V 30A 150V, 40A 150V

30A 100V, 40A 100V | 45A 120V, 60A 120V

Introduction

Experience the forefront of solar energy optimization with our MPPT solar charge controllers, featuring a user-friendly LCD display, effortlessly monitor and manage your system with intuitive ease.

Product Features

- Advanced MPPT technology, fast and stable track the Maximum Power Point, tracking accuracy 99.5%.
- Adopt Synchronous Rectifier Technology, significantly improve the transfer efficiency of circuit, maximum 98.5%.
- 12/24VDC or 12V/24V/48V system voltage automatic recognition.
- Humanized LCD displaying, dynamic display operation data and working state.
- Temperature Compensation Function.
- Accumulation function of charging and Discharging.
- Wide MPPT Operating Voltage Range.

Safety

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Over Charging & Discharging Protection •

MPPT SOLAR GE CONTROLLER

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- Overload Protection, Short Circuit Protection
- Battery Over-Voltage Protection
- **Temperature Compensation**
- Over Temperature Protection, Thunder Protection
- Solar Reverse Connected Protection •
- **EMC** Protection
- Battery Reverse Connected Protection
- Power Limited Protection
- Reverse Flow of Current Protection
- Solar Short Circuit Protection
- Overheating Power Reduction Protection
- Solar Over-Voltage Protection

Applications

Solar RV, Household Solar Energy, Solar Street Lamp, Solar Power Generator, Solar Boat.

Mechanical Size

| 30A 100V, 40 | A 100V | | ≺ W > | |
|-------------------------------|---------------------|----------------|---|--|
| Charge and load current | 30A | 40A | | |
| Size (L×W×H)mm | 195*183*54 | 232.5*200.1*54 | | |
| Mounting hole size | ф5і | mm | | |
| Weight(g) | 1.2Kgs | 1.7Kgs | | |
| Terminal scale | 16mm²/6AWG | 25mm²/4AWG | | |
| Please refer to the indicator | r diagram on the ri | ght | Dimension reference drawing | |

MPPT SCC

30A 100V, 40A 100V 50A 150V, 60A 150V 45A 120V, 60A 120V 30A 150V, 40A 150V



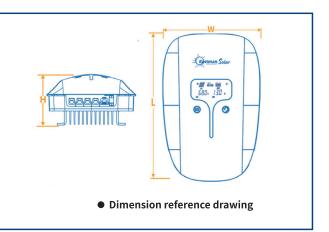
Mechanical Size

| 50A 150V, 6C | 50.1 | 60A | ◆ W → ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ |
|--|------------|---------------------|---|
| Size (L×W×H)mm | | ^{3*103} mm | |
| Mounting hole size | ф5і | mm | |
| Weight(g) | 3.9Kgs | 4.5Kgs | |
| Terminal scale | 25mm²/4AWG | 25mm²/4AWG | |
| Please refer to the indicator diagram on the right | | | Dimension reference drawing |

45A 120V, 60A 120V, 30A 150V, 40A 150V

| Charge and load current | 50A 60A | | | | |
|-------------------------|----------------------|--|--|--|--|
| Size (L×W×H)mm | 277*243*103mm | | | | |
| Mounting hole size | φ5mm | | | | |
| Weight(g) | 3.9Kgs 4.5Kgs | | | | |
| Terminal scale | 25mm²/4AWG 25mm²/4AW | | | | |
| | | | | | |

• Please refer to the indicator diagram on the right



Connection Diagram



MPPT SCC

30A 100V, 40A 100V 50A 150V, 60A 150V

45A 120V, 60A 120V 30A 150V, 40A 150V



Product Specifications

| MODELS | ES-30A SCC 100V ES-40A SCC 100V | | ES-50A SCC 150V | ES-60A SCC 150V | | |
|---------------------------------|--------------------------------------|-------------------|-----------------|-------------------------------------|------------------------------|--|
| System Voltage | 12V/24V | DC auto | | 12V/24V/48V DC auto | | |
| Working voltage range | 8~32V | | | 8~68V | | |
| Max.PV open circuit voltage | 100V (Min.working | g temp) 95V (2 | 5°C) | 150V (Min.working temp) 140V (25°C) | | |
| MPPT voltage range | (Battery volta | age+2V) ~75V | | (Battery voltage+2V) ~125V | | |
| Discharge circuit voltage drop | ≤0.2 | 25V | | | | |
| Self-consumption | <23 | mA | | <2 | W | |
| Rated charge current | 30A | 40 | A | 50A | 60A | |
| Rated discharge current | 30A | 40 | A | / | / | |
| Max.PV input power | 390W/12V 780W/24V | 520W/12V | 1040W/24V | 650W/12V 1300W/24V 2600W/48V | 800W/12V 1600W/24V 3200W/48V | |
| Grounding | Common negative | | | | | |
| Battery type | Sealed (Default)/Gel/Flood/Lithium | | | | | |
| LVD X* | 11.0V ADJ 9V12V ; ×2/24V ; ×4/48V | | | | | |
| LVR X* | 12.6V ADJ 11V13.5V ; ×2/24V ; ×4/48V | | | | | |
| Float Voltage <u>*</u> * | 13.8V ADJ 13V 15V ; ×2/24V ; M/48V | | | | | |
| Boost Voltage X* | 14.4V ADJ 13V | .17V ; ×2/24 ; ×4 | 4/48V battery | voltage less than 12.6v auto | boost 2hours | |
| Battery Over Voltage Protection | | | 16.5V ; ×2/24 | 4V ; ×4/48V | | |
| USB Output | | | 5VDC/1 | A IPCS | | |
| Temperature Consumption# | | For 12V | system:-24m\ | //°C ; ×2/24V ; ×4/48V | | |
| RS485 interface | | Optio | onal | Y | es | |
| Relative humidity | | | ≤95% | , N.C. | | |
| Working Temperature | -2 | 20°C~+50°C°(P | roduct can w | ork continuously at full load | (b | |
| LCD temperature range | | | -20°C^ | ~+70°C | | |
| Waterproof Grade | | | IP | 32 | | |
| Mounting hole size | | | φ5r | nm | | |
| Terminals | 16mm²/6AWG | 25mm² | /4AWG | 25mm | ²/4AWG | |
| Weight | 1.2Kgs | 1.7k | (gs | 3.9Kgs | 4.5Kgs | |
| Overall Dimension (mm) | 195*183*54mm | 232.5*200 | .1*54mm | 277*243 | 3*103mm | |

#when battery type is setted to Lithium battery, Temperature consumption is 0,unchangeable. X Above the parameters are in 12V system at 25°C, twice in 24V system and quadruple in 48V system. *The default value is set based on the lead-acid battery. For other battery type please refer to the manual.

| MODELS | ES-45A SCC-120V | ES-60A SCC-120V | ES-30A SCC-150V | ES-40A SCC-150V | | | |
|-----------------------------|---|--------------------|-----------------------------|------------------------------|--|--|--|
| System Voltage | 12/24V | DC Auto ® | 12/24/48 | VDC Auto 🛛 | | | |
| Rated charge current | 45A | 60A | 30A | 40A | | | |
| Battery voltage range | 8~ | -32V | 8~1 | 68V | | | |
| Max.PV open circuit voltage | © 110V | ©120V | © 138V | ©150V | | | |
| MPPT voltage range | (Battery volt | age +2V)~85V | (Battery voltage +2V)~108V | | | | |
| Rated charge power | 580W/12V 1170W/24V | 800W/12V 1600W/24V | 390W/12V 780W/24V 1560W/48V | 520W/12V 1040W/24V 2080W/48V | | | |
| Self-consumption | ≤70mA(12V)40mA(24V)24mA(48V) | | | | | | |
| LVD | 11.0V ADJ 9V12V ; ×2/24V ; ×4/48V | | | | | | |
| LVR | 12.6V ADJ 11V13.5V ; ×2/24V ; ×4/48V | | | | | | |
| Float Voltage | 13.8V ADJ 13V 15V ; ×2/24V ; 4/48V | | | | | | |
| Boost Voltage | 14.4V; ×2/24; ×4/48V battery voltage less than Boost Restart Voltage Start Boost charging for 2 hours | | | | | | |
| MPPT tracking efficiency | ≥99.5% | | | | | | |
| Max. Conversion efficiency | 98% | | | | | | |
| Grounding | Common negative | | | | | | |
| Battery Type | Sealed(Default)/Gel/Flooded/LiFePO4/Li(NiCoMn)02/User | | | | | | |
| Temperature compensate 🛛 | -4mv/°C/2V | | | | | | |
| Communication method | | RS485(5VI | DC/200mA) | | | | |

O When a lithium battery is used, the system voltage can't be identified automatically. O At minimum operating environment temperature. © At 25°C environment temperature. © When a lithium battery is used, the temperature compensate coefficient will be 0.



Over Charging & Discharging Protection

Over Temperature Protection, Thunder

Solar Reverse Connected Protection

Battery Reverse Connected Protection

Overheating Power Reduction Protection

Reverse Flow of Current Protection

Battery Over-Voltage Protection

Temperature Compensation

Power Limited Protection

Solar Short Circuit Protection

Solar Over-Voltage Protection

Overload Protection, Short Circuit Protection

MPPT SOLAR CHARGE CONTROLLER 80A / 100A

Introduction

Eastman SCC is the ultimate solution for various solar applications like household energy systems, solar street lamps, and power generators. With user-friendly controls, it's versatile and essential for sustainable, reliable solar energy usage.

Product Features

- Advanced MPPT technology, fast and stable track the Maximum Power Point, tracking accuracy 99.5%.
- Auto-control of utility and generator dry contact design to compose a hybrid power system easily.
- Real-time working record function.
- 12/24V/48VDC System voltage automatic recognition.
- Load dry contact to control the external load switch.
- Power reduction automatically over temperature range.
- TVS lighting protection.
- Humanized LCD Displaying
- Accumulation function of charging and Discharging
- Wide MPPT Operating Voltage Range

Applications

Protection

EMC Protection

Safety

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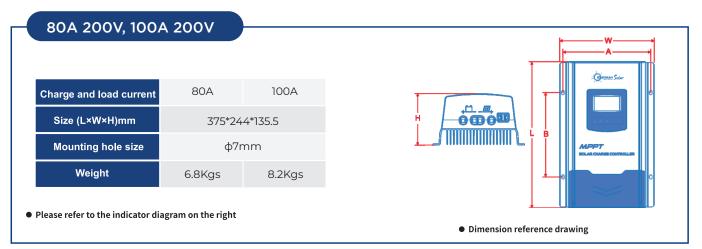
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Solar RV, Household Solar Energy, Solar Street Lamp, Solar Power Generator, Solar Boat.

Mechanical Size



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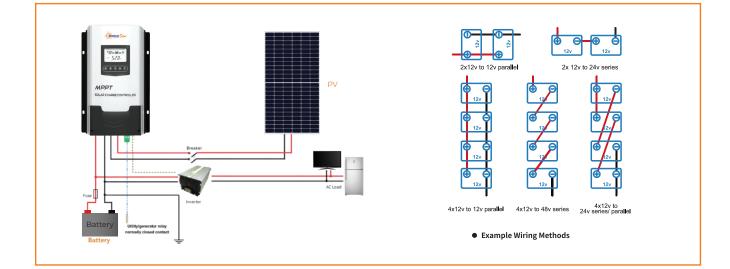


Product Specifications

| MODELS | ES-80A SCC 200V | | | ES-100A SCC 200V | | | | |
|-------------------------------------|--------------------|---|----------------------|---------------------|-------------|--|--|--|
| System nominal voltage | 12/24/48VDC Auto 0 | | | | | | | |
| Rated charge current | 80A 100A | | | | | | | |
| Battery voltage range | | 8~68V | | | | | | |
| Max. PV open circuit voltage | ©180V | | | | | | | |
| MPPT voltage range | | | (Battery volta | age +2V)~ 144V | | | | |
| Max. PV input power | 1000W/12V | 1000W/12V 2100W/24V 4200W/48V 1300W/12V 2600W/24V 5200W | | | | | | |
| Self-consumption | | ≤70mA(12V)/40mA(24V)/24mA(48V) | | | | | | |
| LVD | | 11.0V ADJ 9V12V; ×2/24V; ×4/48V | | | | | | |
| LVR | | 12.6V ADJ 11V13.5V; ×2/24V; ×4/48V | | | | | | |
| Float voltage | | 13.8V ADJ 13V15V; ×2/24V;;×4/48V | | | | | | |
| Boost voltage | 14.4V ; ×2/24; × | 14.4V ; ×2/24; ×4/48V Battery Voltage less than 12.6V Start Boost changing for 2hours(Li-battery not) | | | | | | |
| MPPT tracking efficiency | ≥99.5% | | | | | | | |
| Max. Conversion efficiency | 98% | | | | | | | |
| Grounding | Common negative | | | | | | | |
| Battery Type | | Sealed(D | Default)/Gel/Flooded | /LiFePO4/ Li(NiCo | Mn)02/ User | | | |
| Temperature compensate Coefficient@ | | -4mv/°C/2V | | | | | | |
| Dry contact | | Rat | ted value: 3A/30VDC | ; Max. value: 0.5A/ | 50VDC | | | |
| Communication method | | | RS | 6485 | | | | |
| LCD backlight time | | | Defa | ult: 15S | | | | |
| Protection Level | IP32 | | | | | | | |

O When a lithium battery is used, the system voltage can't be identified automatically. O At minimum operating environment temperature O At 25 C environment temperature O When a lithium battery is used, the temperature compensate coefficient will be 0.

Connection Diagram





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