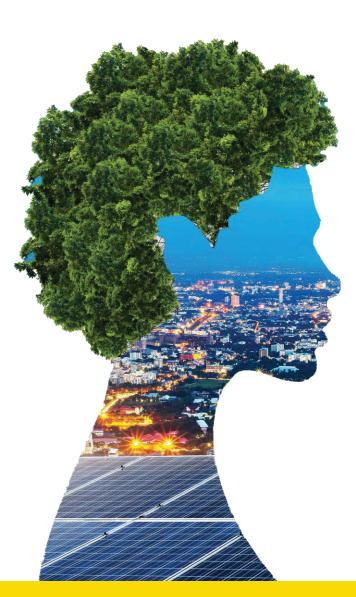




EASTMAN WORLD

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
8. ES-60A SCC 120V	06
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

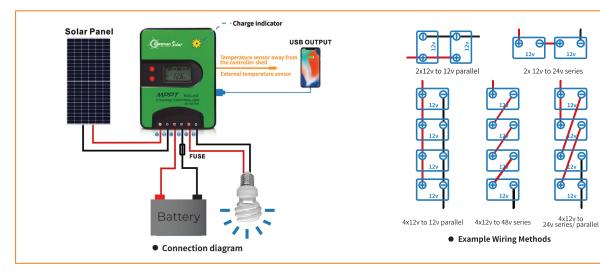
MODELS	ES-15A SUN 75V	ES-20A SUN 75V	ES-30A SUN 75V	ES-40A SUN 75V			
System Voltage	12V/24V DC auto						
Working voltage range	8~32V						
Max.PV open circuit voltage	75V (Min.working temp) 70V (25°C)						
MPPT voltage range	(Battery voltage+2V) ~65V						
Discharge circuit voltage drop		≤0.2	25V				
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

3

Over Charging & Discharging Protection •

MPPT SOLAR GE CONTROLLER

an Solai

- 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



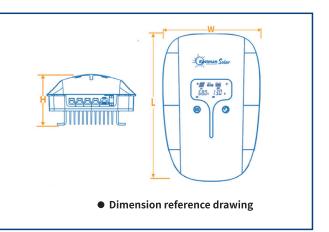
Mechanical Size

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

•

.

•

•

•

•

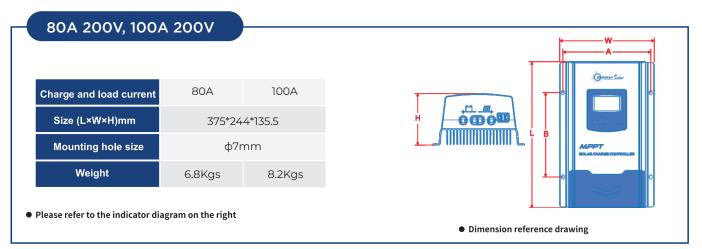
.

•

.

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

Mechanical Size



www.eastmanworld.com

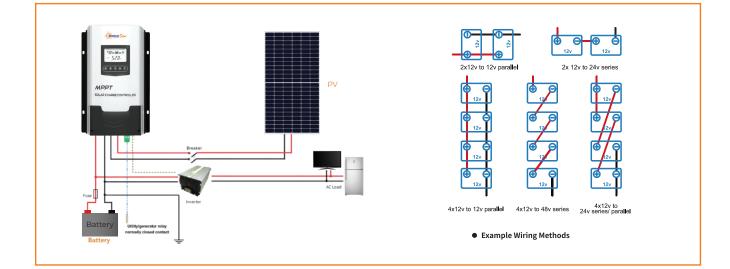


Product Specifications

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





www.eastmanworld.com marketing@eastmanworld.com

AMPS MIDDLE EAST FZ LLC #703 - 704, 7[™] Floor, Deira Twin Tower, Baniyas Square,Deira, Dubai (UAE) EASTMAN AUTO & POWER LTD.

ASF Towers, 249, Udyog Vihar Phase-4, Gurugram, Haryana-122016, India

GUANGDONG EASTMAN NEW ENERGY CO., LTD #1602, Meilan business centre, Intersection of Xixiang Avenue and Qianjin Second Road, Bao'an, District, Shenzhen-518102, China

Follow us on » 🔞 @eastman_world 🖸 @EastmanWorld 🚯 @EastmanWorld