

MPPT

SOLAR CHARGE CONTROLLER

ES-40A SCC



Humanized LCD displaying



Advance MPPT Technology



Accumulation function of charging and discharging



Wide MPPT Operating Voltage Range

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%.
- Widely range of Maximum Power Point of PV array, Max PV input Voltage 100V
- 12/24VDC system voltage automatic recognition
- Humanized LCD displaying, dynamic display operation data and working state
- Temperature Compensation Function

Application Scenario



Solar RV



Household solar energy



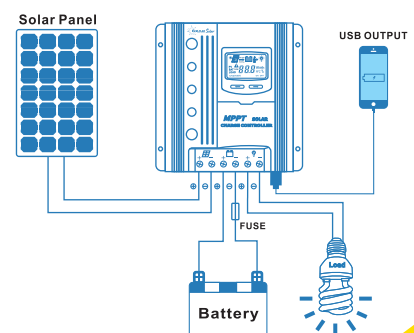
Solar Street Lamp



Solar Power Generator



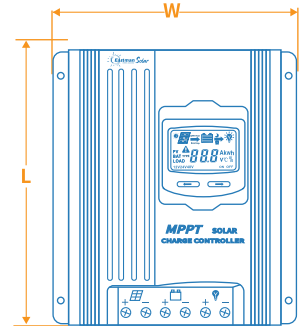
Solar boat



● Connection diagram

Mechanical size

Model	ES-40A SCC
Charge and load current	40A
Size (L×W×H)mm	232.5×200.1×54
Mounting hole size	φ5mm
Weight(kg)	1.7
Terminal scale	25mm ² /4AWG

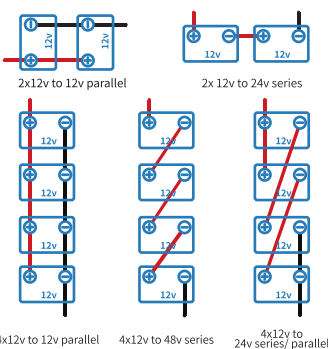


● Please refer to the indicator diagram on the right

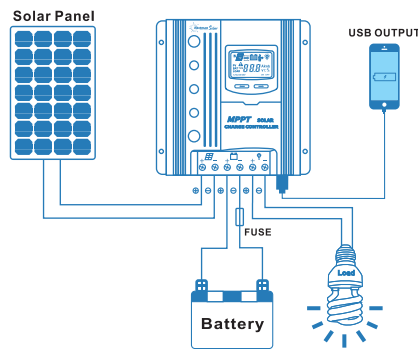
● Dimension reference drawing

Model	ES-40A SCC
System Voltage	12V/24V DC auto
Working voltage range	8~32V
Max.PV open circuit voltage	100V (Min.working temperature) 95V (25°C)
MPPT voltage range	(Battery voltage+1V) ~75V
Discharge circuit voltage drop	≤0.25V
Self-consumption	<23mA
Rated charge current	40A
Rated discharge current	40A
Max.PV input power	520W/12V 1040W/24V
Grounding	Common negative
Battery type	Sealed(Default)/Gel/Flood/Lithium
LVD※*	11.0V ADJ 9V...12V ; x2/24V ; x4/48V
LVR※*	12.6V ADJ 11V...13.5V ; x2/24V ; x4/48V
Float Voltage※*	13.8V ADJ 13V... 15V ; x2/24V ; M/48V
Boost Voltage※*	14.4V ADJ 13V...17V ; x2/24 ; x4/48V battery voltage less than 12.6v auto boost 2hours
Battery Over Voltage Protection	16.5V ; x2/24V ; x4/48V
USB Output	5VDC/1A 1PCS
Temperature Consumption#	For 12Vsystem:-24mV/°C ; x2/24V ; x4/48V
RS485 interface	Optional
Relative humidity	≤95%, N.C.
WorkingTemperature	-20°C~+50°C(Product can work continuously at full load)
LCD temperature range	-20°C~+70°C
Protection Level	IP32

Connection



● Example Wiring Methods



● Connection diagram

Safety Protection

