

SOLAR CONTROLLER FOR SOLAR DC HOME SYSTEMS



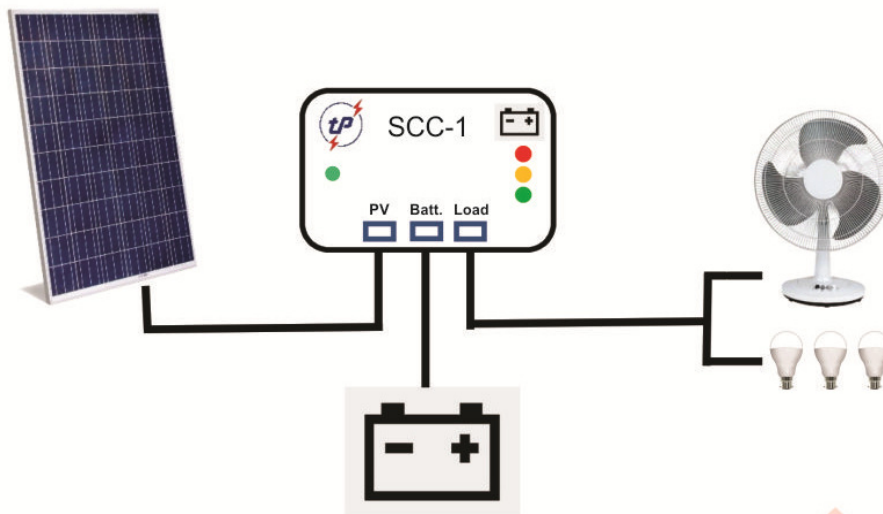
Technology Products is known for high quality and reliable products. Our new and low cost solar controller SCC series is ideal for rural electrification projects. Our SCC-DD model provides automatic dawn to dusk feature for use in places where no human intervention is required.



Advantages of our SCC Series Controller

SCC Series controller has number of advantages as compared to other controllers available in the market –

- ❖ Reliability : SCC Series is designed for high reliability. Due to the solid state design it has a low failure rate which will enable it to give long lifetime.
- ❖ Reduced Cost : Our SCC Series is designed to meet the requirement of rural areas where we have used latest electronics to bring down the cost and at the same time keeping the quality.
- ❖ Protections : Protected from wrong wiring done at the time of installation.
- ❖ Easy to Use : SCC Series controller is automatic and requires no adjustments or user selections.
- ❖ Automatic Lighting Control : SCC-DD Series has a feature which automatically turns the lights On at dusk and turns light Off at dawn.
- ❖ Reduces Cost of Replacement of Battery : SCC Series has a feature which enables low voltage disconnect thus increasing the life of the battery. Connected loads are disconnected automatically when battery voltage is low and automatically gets reconnected after the battery is recharged. Full charging increases the battery life and its storage capacity.
- ❖ Status LEDs display the information and battery level which supports user to efficiently Use the solar power system.



TECHNOLOGY PRODUCTS

System Technical Datasheet for Model SCC-1



Charge Controller Specification :

Controller Type	MPPT
Charging Algorithm	3 Stage charging(Bulk, Constant Voltage, Float) 3mv drop per cell for each degree rise
Temperature compensation:	High Temperature Protection: Temp > 75 ± 5% Degree stop charging Temp < 55 ± 5% Degree start charging again
Charging Efficiency (MPPT)	>90%

Protections, Indicators & General Specifications :

Operating Voltage	11.2V ± 3% to 14.3V ± 3% Operating Voltage > 14.3 ± 3% : Error Indication Operating Voltage < 11.2 ± 3% : Low battery cut-off Indication
USB Ports	2 Nos. , Each of 5V, 1A
Low Battery cut-off	11.2V ±3%
Reconnect Voltage	12.4V ±3%
Short Circuit protection	Feature Provided
Reverse Battery Polarity	Feature Provided
Reverse Panel Polarity	Feature Provided
Self consumption	<25mA
Max Charging current	12 -15Amp
Charging Indication	Green LED
Low Battery Indication	Red LED
LCD Display	Feature Provided
USB Port (2 Ports)	Feature Provided (for Mobile and Radio)
Load Wattage	80W
Driver Efficiency	>90%
Operating Temperature Range	0 to 75°C
Ingress Protection	IP21 protected electronics

System Level Specifications (Recommended Specification for use with load)

Battery Specifications :

Battery Type	Lead Acid Tubular Flooded Type
Battery Voltage	12V
Battery Capacity(AH)	120AH

Panel Specifications :

Panel Voltage (Voc)	21V
Panel spec supported	150W