

# SOLAR CHARGE CONTROLLER WITH DC LOAD



SPEARHEADING

## SOLAR TECHNOLOGY REVOLUTION

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AFFORDABLE

CREDIBLE

RELIABLE

ENVIRONMENT FRIENDLY

Solar Charge Controller with load management is a unique product from TP basket that a solution of PWM Solar Charge Controller with addition DC Load to run home-lighting direct through DC Voltage weather it is from solar power or battery backup.

### FEATURES-

PWM based Solar Charge Controller's advanced Microprocessor design optimizes the operation processes. Solar Charge Controller (SCC) will always charge the battery when solar is present till the battery voltage reaches 14.7V. Solar current will be zero once battery reaches 14.7V. SCC will reconnect the battery (start charging) if the battery voltage reaches 12.6V on discharge. User can connect 06 no. 100Wp or 04 no. 150Wp solar panels. Easy to install and maintain the system. It works with the existing domestic inverter. SCC increases the battery lifetime. SCC has high efficiency and automatic operation. USB port which gives you the flexibility of charging the DC device like Mobile phone directly without the use of an adapter. Five separate ports to connect the DC devices like bulb, tube light, ceiling fan etc. Additional DC jack's to run the DC devices like table or wall fan directly without the use of an adapter.

### PROTECTIONS-

- i) Battery over charge
- ii) Battery reverse polarity
- iii) Battery reverse current
- iv) Solar high voltage
- v) SPV reverse polarity
- vi) Overload protection on DC load
- vii) Over current protection on DC load



### TECHNICAL SPECIFICATIONS\*

Parameters	Rating Technology	12V/20A
<b>Electrical</b>	Technology	PWM
	Precise Control	Micro controller based
	Switching Device	MOSFET
	Efficiency	>90%
	Voltage Rating Battery	12V
	Charging Mode	Bulk / Absorption / Float / Equalize
	Bulk Charging	14.5V/ Batt. ± 1V
	Absorption Charging	14.4V/ Batt. ± 1V
<b>Protections</b>	Float mode Charging	13.5V/ Batt. ± 1V
	Charging Current	2.0 A
	Battery over charge	Provided
	Battery reverse polarity	Provided
	Battery reverse current	Provided
<b>Environmental</b>	Solar high voltage	Provided
	SPV reverse polarity	Provided
	Operating Temp.	0-60°C
	Max. Relative Humidity (Non-Condensing)	5-95%
<b>Precaution</b>	Storage Temp.	-10 - 70°C
	Protect Solar Charge Controller from direct Sunlight & Water	
	Panel open circuit voltage should not be more than specify voltage	
Grid Connection	N/A (for DC Load)	

\* Specifications may change due to continuous R&D

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