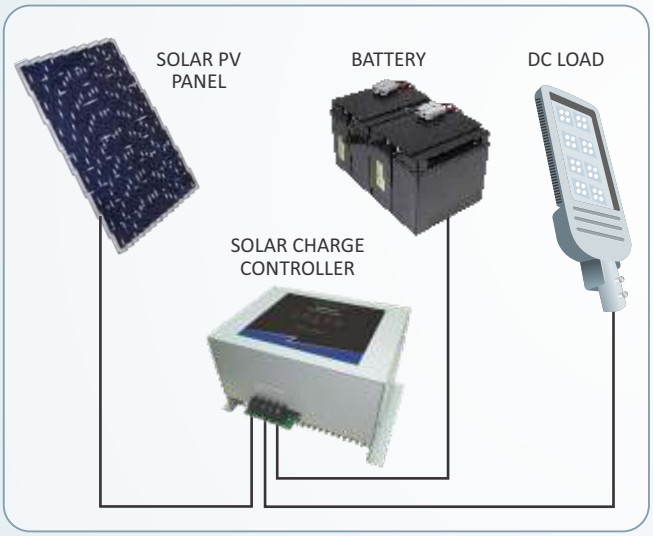
SYGNUS

SOLAR CHARGE CONTROLLERS

An ISO 9001:2008 Company

SOLAR CHARGE CONTROLLER

System Schematic

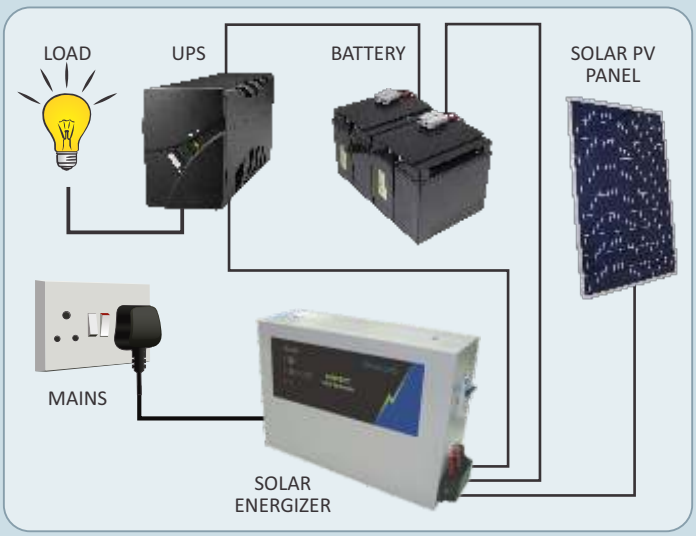


Key Features

- ★ Maximum Power Point Tracking (MPPT) technology ensures maximum efficiency & power output from your solar panel at all operating conditions.
- ★ Automatic Temperature compensation
- ★ Supports various battery types such as flooded lead acid, VRLA, Gel and Lithium polymer batteries
- ★ High current protection
- ★ Optional outputs for load with short circuit prevention
- ★ Optional outputs for load that will be switched on automatically at night with short circuit prevention.
- ★ Optional Relay output - configurable to cutoff external charger / divert power from panels to inverters when battery is full
- ★ Optional LCD display
- ★ Easily integrates with GPRS based solar monitoring system

SOLAR ENERGIZER

System Schematic



Key Features

- ★ Optimizes UPS battery charging using solar energy as the priority over grid power
- ★ Provides convenient interfaces to existing UPS systems and allows efficient battery charging while maximizing the solar panel output at all operating conditions
- ★ Extracts maximum power output from your solar panel at all operating conditions.
- ★ Superior efficiency over traditional UPS systems
- ★ Automatic Temperature compensation
- ★ Supports various battery types such as flooded lead acid, VRLA, Gel and Lithium polymer batteries
- ★ Microprocessor based fuzzy logic control to select ideal operating point for the battery UPS interface system

SOLAR CHARGE CONTROLLER SPECIFICATIONS

SPECIFICATION / MODEL	SCC20	SCC200	SCC300	SCC500
Battery Voltage	12/24/48V			> 72V
Solar Panel Voltage Max.	OCV: 30V (12V Batt.); OCV: 40V (24V Batt.); OCV: 80V (48V Batt.)			See Note 1
Maximum Charging Current	20A	15A	30A	See Note 2
Indication LED's	Battery Status; Solar Charging; Mains Status			
Power Conversion Efficiency	Up to 95%	Up to 97.5%		
Standby Power consumption	< 50mW	< 60mW	< 60mW	< 500mW
Temperature Compensation	-	Yes		
MPPT Algorithm	-	Yes		
Operating Temperature	0 to 70 °C			
Storage Temperature	0 to 70 °C			
Operating Humidity	0 to 90% RH non condensing			

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Maximum Charging Current	20A	15A	30A	See Note 2
Indication LED's	Battery Status; Solar Charging; UPS Mains Charging status			
LCD Display	Not Available	Optional		Available
Power Conversion Efficiency	Up to 95%	Up to 97.5%		
Input AC Power Supply	From Mains Power Supply			
Input AC Socket (Fuse)	5A Socket (5A)		15A Socket (15A)	
Solar Optimizing Controller	Yes (Built-in)			
Optimizing Algorithm	Proprietary Fuzzy Logic			
Standby Power Consumption	<50mW	<60mW	<60mW	<500mW
Temperature Compensation	-	Yes		
MPPT Algorithm	-	Yes		
Operating Temperature	0 to 70 °C			
Storage Temperature	0 to 70 °C			
Operating Humidity	0 to 90% RH non condensing			

Note 1: Custom engineered on request. Supported panel voltages up to 400V

Note 2: Maximum charging is designed with single or multiple modules according the maximum panel output

SOLAR CHARGE CONTROLLER MODELS

SYGNUS - SCC20
PWM based Solar Charge Controller 20A maximum

SYGNUS - SCC200
MPPT based Solar charge controller 15A maximum

SYGNUS - SCC400
MPPT based Solar Charge Controller 30A maximum

SYGNUS - SCC500
MPPT based Solar Charge Controller 30A maximum for 72V and higher battery voltages

SOLAR ENERGIZER MODELS

SYGNUS - SCS20
20A PWM Charge controller and automatic mains charge control

SYGNUS - SCS200
15A MPPT Charge Controller and automatic mains charge control

SYGNUS - SCS400
30A MPPT Charge Controller and automatic mains charge control

SYGNUS - SCS500
MPPT Charge Controller and automatic mains charge control for 72V and higher battery voltages

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