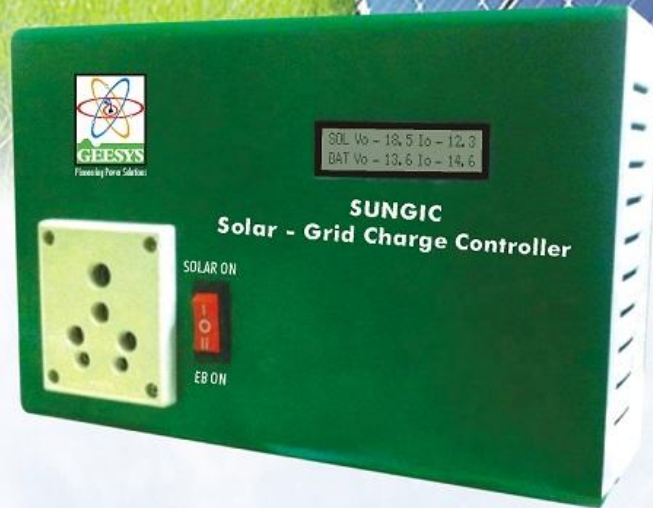


SUNGIC Solar - Grid Charge Controller

- ★ Microcontroller Based
- ★ Built-in MPPT Algorithm



GEESYS Solar - Grid Interactive Charge Controller

Our SUNGIC helps in converting any Home UPS into a Solar PCU cost effectively. Our SUNGIC charge controller is not like other charge controller which switches off its charging function when the battery is fully charged. SUNGIC connects the SPV current directly to the load through the UPS when the battery goes beyond the reserved level and it controls the grid input to the UPS. When the load consumption is equal or less than the solar PV panel generation then the solar power can be utilized till evening. Hence it will not draw any current from battery or grid. When the load consumption is more than the solar PV power generation then it draws current from battery. We have set a reserved level for a battery, Once Reaching this level our charge controller will allow the grid to enter the UPS and takeover the load. Solar PV power will charge the battery so it will not allow to drain the battery completely.

Features

- ▶ Smart Controller to interact with Grid Power, Existing UPS, Solar PV Power and Battery.
- ▶ MPPT Technology, efficiency is improved by more than 20%.
- ▶ Intelligent microprocessor control
- ▶ Complete solar power solution designed to work with photovoltaic panels and 12/24V backup battery.
- ▶ First in its class LCD with Power and Energy measurement
- ▶ Menu settable configuration using 2x16 LCD and 3 push buttons *
(Battery Voltage, Current & Float Voltage, Current)
- ▶ Three stage Charging Optimized fast, medium and trickle charging
- ▶ Over voltage/Under voltage protection
- ▶ Optically Isolated output to control Mains charger and Inverter
- ▶ Silent, solid state pulse Width Modulation (PWM Charging) process
- ▶ Test point allows precise adjustment of settings
- ▶ Electronic over current protection
- ▶ Protection against various parameters
- ▶ Real time sensing of voltage and current to optimize charging

Technical Specification

Parameters	GSGC12V	GSGC24V
Min PV Input Voltage	14.5V	28.0V
Max PV Input Voltate	25.0V	50.0V
Operating Voltage	12.0V	24.0V
Rated Current	10A - 50A	10A - 50A
Grid Stop Charging Voltage	13.8V	27.6V
Grid Start Charging Voltage	11.6V	23.2V
Low Voltage Battery Cut - Off	10.5V	21.0V
LCD Display	V,I of Solar PV and Battery, Solar Power & Energy	
MPPT	Yes	Yes
Charge Indication	LED	LED
Protections	Battery Over Voltage & Current Battery & Panel Reverse Protection	

* Tailored Made Products are available

GEESYS Technologies

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