

SOLARCON

PATENTED ISIS
(INTELLIGENT SOLAR INTERFACE SYSTEM)

12V-24V
20A



REDUCES
ELECTRICITY BILL

RUPEE SAVER
SOLAR DISPLAY PANEL

AUTOMATIC CHANGE-OVER
FIRST SOLAR, GRID AND THEN BATTERY

PWM Range - 12V/20A, 24V/20A

Su-Kam's SolarCon hybrid Solar Charge Controller is an intelligent device with inbuilt intelligent technology for utilization of solar power optimally. It can be connected with any existing HUPS/Inverter so that your system gets converted into a solar powered system. SolarCon controls the mains supply to the inverter. When the battery is fully charged and still solar power is available to charge the battery, it automatically disconnects the mains from the inverter and the inverter starts working in backup mode, now the power is supplied from battery and solar both. This helps in utilizing the generated solar power optimally. When the battery is discharged below the pre-defined user settable limit and mains is present, it is connected to the inverter so that the load is bypassed to mains and the battery charging can take place.

Features

- High efficient Series PWM charging, increases battery life and improves the solar system performance.
- Widely used, automatically recognizes day/night.
- Graphics dot-matrix LCD screen & HMI (human-machine interface) with 4 buttons, integrated menu display & operation.
- Humanized design of browser interface, for convenience of operation.
- Full control parameters setting and modification, diversified load control mode.
- Gel, Sealed and Flooded battery type options -SMF/TT/LA batteries.
- Adopt temperature compensation, correction algorithm

for charging and discharging parameters automatically and improve battery life.

- Reverse protection: any combination of solar module and battery.

Electronic Protection Updates

- Short Circuit through Fuse.
- Reverse Battery Mode with LED Indication.
- Reverse PV array with LED Indication.
- Surges/ Spikes protection with MOV.
- No mechanical switch, uses MOSFET as an electronic switch.
- Prevent overheating, overcharging, over discharging, over load, and short circuit.

LCD DISPLAY & INSTALLATION DIAGRAM

SOLAR CHARGE ON

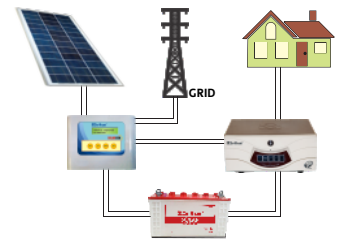
PV VOLT.=12.04 V
DIP-SET:HHHLH

SAVING
Rs 240

SOLAR CHARGE OFF
PV VOLTAGE HIGH

BATTERY VOLTAGE
12.03 V (LA)

MAINS FAIL
GRID CHARGE OFF



TECHNICAL SPECIFICATIONS OF SOLARCON

Nominal Battery Voltage	12 V (Single Battery)	24 V (Double Battery)
Recommended Home UPS / Inverter Range	Upto 1000VA	Upto 2000VA
Minimum Recommended Battery	135Ah with 260Wp (Solar PV Module) /	135Ah with 520Wp (Solar PV Module) /
Ah capacity w.r.t PV module capacity	120Ah with 200Wp / 75Ah with 160Wp / 40Ah with 100Wp	120Ah with 400Wp / 75Ah with 320Wp / 40Ah with 200Wp
Maximum PV panel rating	36 cell Polycrystalline/monocrystalline	60/72 cell Polycrystalline/monocrystalline
	Typical: 250 Wp	Typical: 500 Wp
	Maximum: 260Wp	Maximum: 520Wp
Float voltage	13.7 V ± 2% at charger's o/p terminal	27.2 V ± 2% at charger's o/p terminal
Equalization Voltage	Bulk Voltage + 1V	Bulk Voltage + 2V
Automatic Temperature compensation in	Provided	
Auto Restart after PV High Current	3.5 minutes. ± 20 sec	
Input Range	90V-300V ± 20V	
Automatic Changeover Solar / Grid / Battery	Grid power connects to inverter when battery voltage ≤ 11.4 / 11.8 / 12.2 / 13.0V ± 2% per battery (As per setting of selection Switch) if grid is within the specified range.	
Short Ckt. (Mains Mode)	Yes (through Fuse)	
Reverse Battery	Yes with LED indication	
Reverse PV array	Yes with LED indication	
Surge/ spike protection	Yes through MOV	
Backup Mode & Mains Mode	Battery Voltage / Solar Status / Rupees Saving / Mains Low / Mains High / Battery Low / Battery High	
Operating Temperature Range	0°C to + 55°C	
Dimensions (WxDxH) in mm	215mm X 156mm X 68mm	
Weight (±) 100 gm.	1.3 Kg	

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