Solar based Power Supply with full Telemetry (SCC-09)

NexGen Business

SCC-09

Main features:
- Low self-consumption
- Optimized charging control
- All metal IP65 enclosure
- Small footprint
- RS-232 host based telemetry
- 12/100Ah deep discharge battery as standard
- Available Ethernet and GSM port expansion to allow out-of band monitoring.
- API supplied to develop your own monitoring framework

Applications:
- Internet Wi-Fi repeaters
- Radio repeaters
- Weather stations
- Remote sensing
- Remote Cameras and security systems
- Mobile Homes & Caravans
- Any other use where power is needed and there is no mains grid

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SCC-09 is a Solar based Power supply intended for powering radio, remote sensing or any other equipment in remote locations without the grid connection. It can be matched to wide range of solar panels, batteries and user equipment. The embedded microcontroller makes sure batteries are always fully charged.

SCC-09 can report charging, environmental and battery telemetry either in-band or out of band via RS-232, Ethernet or GSM. This telemetry can be used by the operator to make decisions and take preventative action if necessary. Data can be displayed on the internet and hosted on end user's servers or NexGen servers for a small monthly fee. Software and the full API are supplied as standard if the end users intends to develop his own monitoring framework. Please visit www.nexgenbusiness.co.uk/solarstatus to see live data from one of our installations at Isle of Wight.

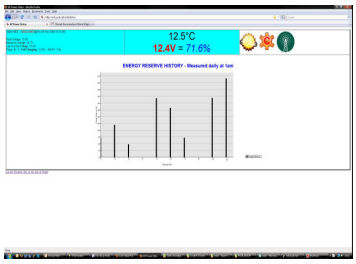
The basic model is supplied in an IP65 metal enclosure (600x600x200mm), it has smart charger/controller with RS-232 port, and comes with a single 100Amp 12V deep discharge lead-acid battery.

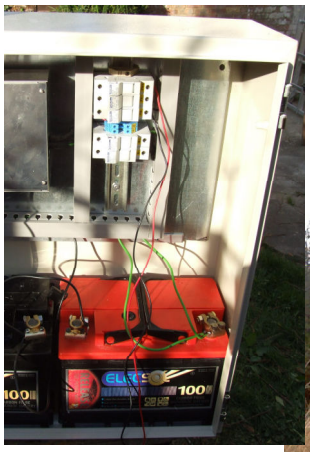
SCC-09 enables the end user to install and connect his equipment quickly by plugging in the power source on one end (solar panel) and the end equipment (Wi-Fi bridge, repeater or similar) on the other

The basic setup will supply constant loads of up to 15W and give enough energy reserve for 2-3 foggy, rainy, or just dark days.

The unit can accept batteries with the total capacity of 225Ah, and can be expanded using add-ons to allow up to 1000Ah battery capacity, or to report telemetry via Ethernet/GSM instead of RS-232

We can also install the SCC-09 units, supply and fit masts, solar panels and maintain and monitor the system.





Technical Specification

- Output voltage 12, 24VDC or 230VAC
- Rated Solar Input 50-500W
- Rated battery capacity up to 225Ah (larger capacities up to 1000Ah are possible by adding a battery expansion box)
- Rated load up to 150W constant load
- Intelligent Temperature Compensated Charging
- Self-consumption <10 mA
- Operating Temperature –20 to +60ºC
- Status Telemetry via RS-232 (basic model), Ethernet or GSM (via add-ons) to allow in Band (Via host) or out of Band Reporting option
- Monitoring software can run on Windows, Linux, Mac OS X, or FreeBSD
- Full API supplied to develop your own monitoring framework