innovative energies

What's New

No-Break™ DC Power Supplies with SNMP

SNMP

Innovative Energies ***No-Break™DC*** power supplies now have a **SNMP** option in their LAN units for monitoring and control.

What is SNMP?

SNMP – Simple Network Management Protocol is an industry standard for network management. It consists of managed devices, managers and agents.

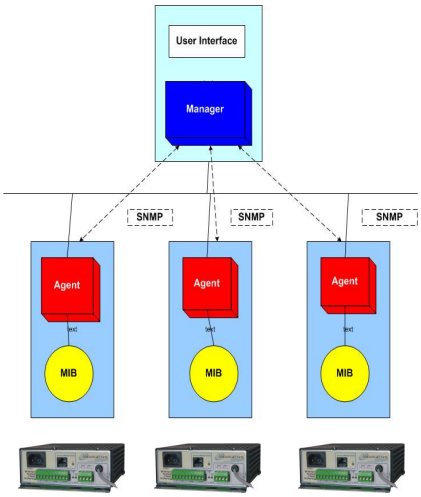

Fig 1: SNMP Structure

Fig 1 illustrates the structure of SNMP in a network.

How does SNMP work?

SNMP exchanges network information through messages. The SNMP messages may be initiated by either the network management system (NMS) or by the network element.

An SNMP TRAP is a message (signal or alarm) which is initiated by a network element and sent to the network management system.

What is a MIB?

The MIB (Management Information Base), is a collection of variables which is shared between the NMS and the network element.

What is a Agent?

An agent is an SNMP module that resides in a managed device. The agent has local information about the managed device.

The agent can also send traps, or notification of certain events to the manager. The user interface is a webpage where the user can monitor and control the power supply.

The power supplies act as managed devices from which all the information is extracted. The SNMP agent gathers data from the management information base (MIB), which is the repository for information about the power supply and network data.

The web server sends out an alarm or message if the power supply encounters any of these events below.

- Possible battery missing
- Mains fail
- Battery in bad condition
- Communications fail
- Overload
- System down
- Battery missing
- Battery low voltage

How is this beneficial to you?

With the SNMP feature in power supplies, it allows users to control and monitor their power supplies remotely from any communication device with access to the internet.

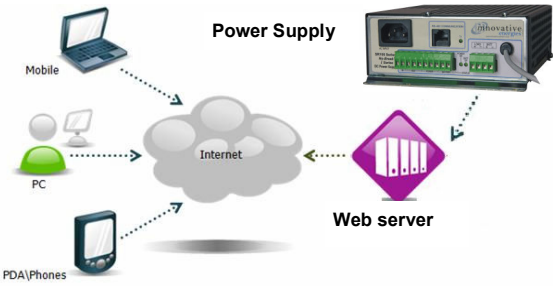

Fig 2: SNMP Communication

Fig 2 represents the communication structure of the Power supply.

The send/receive process in the above figure shows that the data is extracted from the power supply and received by other devices via the internet.

Network management personnel will be able to do real time monitoring of the system by viewing the voltage, current, etc of the power supplies.

Alarms and alerts are sent out whenever there is a fault condition and notifications can be via email, text message or other forms of communication.

The Innovative Energies ***No-Break™DC*** power supply/charger having SNMP will have a code with the suffix **-LAN+**, eg. SR250 ***i*** 24 TXL-LAN**+**

SNMP is an easily implemented protocol which helps users manage and control critical elements in their networks and systems.

SNMP will be available January.