

## PHOTOVOLTAIC - HYBRID POWER SYSTEM CONTROLLER



**MPR-9800 PACKAGING**

**THE MPR-9800 PV CONTROLLER** is your TOTAL PV controller solution for your telecommunication, residential and hybrid power needs. TOTAL because we put the most advanced and innovative features in our basic to advanced controller systems. The MPR-9800 addresses the TOTAL needs of your batteries as well as your loads.

**THE MPR-9800** provides dramatically reduced maintenance cost as well as increased survivability at your sites.

**DST** provides complete turn-key power system controllers.

**DST** sells its controls through our major photovoltaic distributors/system integrators. Contact DST for a distributor near you.

# MPR-9800

**POWER CONTROL SOLUTIONS  
FOR THE PV - HYBRID INDUSTRY**

**-MEDIUM SIZE SYSTEMS-**

### FEATURES

- **Communication via RS232 Serial Interface**
- Advanced MPR-9800 modular Micro-Processor control circuitry to allow flexible controller configurations.
- PV power from 35 amps to 200 amps @ 12, 24, 36, 48, VDC
  - 2 channel subarray staged taper charge
  - Pulse finish charge
  - PV equalizations
- Advanced charging algorithms, EBBM™
  - Temperature compensated
- Generator control, Start/Stop voltages
- Load control up to 60 amps
- Complete monitoring capabilities
  - Battery voltage, PV and Load currents, Date & Time, Battery and controller temperatures and all control channel conditions
  - LED's - Load, PV, LVA, HVA, GEN
- LCD for viewing monitored parameters
- Alarm relays, 2formC voltage free
- System Safety
  - Reverse polarity protected
  - Transient voltage protection
  - Circuit breakers on PV, Load
- NEMA 4X enclosure
- **Remote communications option**
- **MAIN battery disconnect option**
- **PWM module option**

Two year limited warranty

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**ENGINEERING POWER SOLUTIONS FOR THE PHOTOVOLTAIC INDUSTRY**



**DIGITAL SOLAR TECHNOLOGIES**

## REMOTE COMMUNICATION

The MPR-9800 can be equipped with an optional 14,400 baud **MODEM** which will allow the user to dial the remote site's MPR using our **MPRCOMM** software package OR communications can be accomplished via the RS232 serial interface through your communication equipment to retrieve the system's status. This provides a user friendly interface to our controllers via your personal computer. This option is one of the most valuable features the MPR series has to offer. This communication package allows you to fully monitor and control your system as if you were physically at the site. **Imagine the money and time that will be save** by not having to travel to your remote power system!

## SPECIFICATIONS

- Voltage - 12 to 48 VDC, Neg. or Pos. Gnd
- Array current - up to 200 amps
- Load current - up to 60 amps
- Parasitic load - 30 mA
- Analog inputs - 4
- Digital inputs - 1
- Digital outputs - 6
- Resolution 8 bit
- Temperature - -40°C to 85°C
- NEMA 4X enclosure 16" X 14"
- Maximum wire sizes
  - Battery - 2/0
  - Arrays - 1/0
  - Loads - 1/0
  - Control wire - 14 AWG
- LCD - 2X24 -20°C to 70°C
- 5 LED's
- LVA, HVA and GEN 2formC output contacts
- UL listed DC rated @ 125 VDC circuit breakers

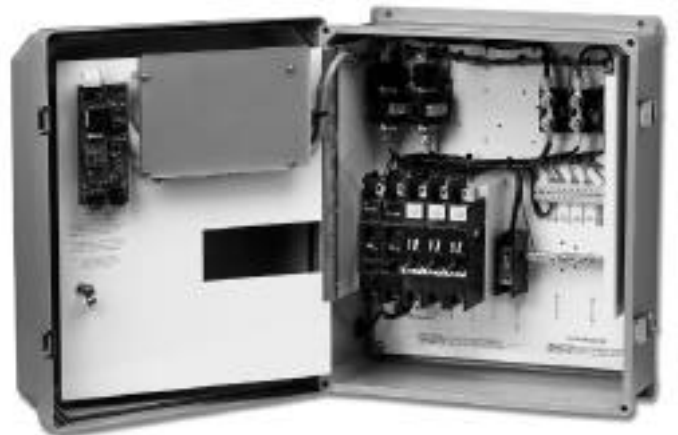
## COMMUNICATION SOFTWARE

DST's new **Visual Basic** software package will enable the user to communicate with the MPR-9800 **locally or remotely**, using Windows 95 and 98 platforms.

The user friendly interface allows all system parameter to be monitored and all set points and controls to be changed.



**MPR-9800 INSTRUMENT PANEL**



**MPR-9800 POWER COMPONENTS**

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