



Charge Controller Description:

The MSR1-10 24V NE Charge Controller is a stand-alone solar charge regulator designed for use in industrial applications.

The unit features one Array Input rated at 10A and one Load Output rated at 5A (continuously rated).

The unit is designed using well-proven technology and incorporates a 3-stage charging regime. Using remote Battery Voltage Sense connections plus an optional Battery Temperature Sensor, the maximum life and performance from the batteries can be expected.

The unit features a 2-line 16-character LCD display and keypad. The user is able to view and adjust all Regulation Voltage and Alarm settings on site.

Four programmable Alarm Relays with volt-free changeover contact and LED are included. Each Alarm Relay can be programmed to activate on any available function: Common Alarm, High Volts, Low Volts, Load Disconnect, Array Failure, Temperature Sense Failure, etc.

The unit features an expansion port allowing connection of additional relays, optional RS232/RS485 Communications Port, 4-20mA Transducers, etc.

The unit has Metal Oxide Varistor (MOV) lightning protection on the Array, Battery and Load connections.

The Charge Controller Assembly is housed in a Din-rail carrier for fast assembly. The Unit must be installed in an enclosure suitable for the environment.

Basic Features and Options:

- * 65°C Operation
- * Solid-State Array Switch
- * Array Input = 1 x 10A
- * Solid-State Load Switch
- * Load Output = 1 x 5A
- * 3-Stage Regulation
- * Remote Battery Voltage Sense
- * Optional Battery Temperature Sensor
- * 2 x 16 Alphanumeric LCD Display
- * User Programmable Settings
- * 4 x Alarm Relay Output
- * Expansion Port allowing connection of additional relays, optional RS232/RS485 port, 4-20mA transducers, etc.
- * Lightning Protection
- * 235mm x 120mm x 55mm
- * PCB Assembly in Din-rail Carrier
- * Regulation Mode signalling by 2 x N/O volt-free Alarm relay contacts (shared common) via 3-way PCB terminals.
- * Auxiliary Volt-free Input
- * Common Negative Operation (NE)