

PDP-12V100A

Power Distribution Panel Manual



The Power Distribution Panel is designed for 12V uninterrupted systems equipped with chargers and batteries and fits a 19" rack. The panel provides power distribution, charger, batteries and load overcurrent protection, and load undervoltage protection.

The panel can be customized to the client's requirements.

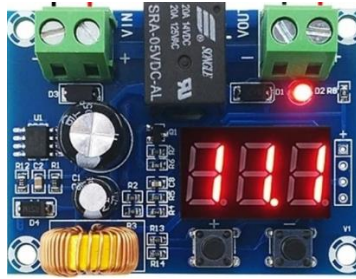
The standard panel configuration provides distribution to up to five loads protected at 20 Amps (maximum) each. The charger input is circuit breaker protected at 100 Amps. The battery connection is circuit-breaker-protected at 75 Amps. All circuit breakers are of the slow-action type to avoid tripping on momentary overloads.

To meet the customer application demand, the panels can be equipped with load circuit breakers of different ampacity; the load current could be increased to 100A, or it can be equipped with customer circuit breakers.

Power Distribution Panel Connection

Setting the Undervoltage Protection

Setting the undervoltage protection includes setting the low voltage disconnect value and the voltage reconnect difference. For example, for a 12V system, the low voltage disconnect is 10.9V, and it needs to reconnect when the voltage increases to 12V. Then the low voltage disconnect is set to 10.9V and the voltage reconnect difference is $12 - 10.9 = 1.1V$.



To verify the current setting for low voltage disconnect, press the "+" button once. To verify the current setting for the voltage reconnect difference, press the "-" button once. To set the low voltage disconnect value, long press the "+" button until the LED display starts flashing. Then, press the "+" button to increase the value or the "-" button to decrease the value. To set the voltage reconnect difference, long press the "-" button, then use the "+" and "-" buttons to set the value.