



Proactive Monitoring

USER MANUAL

POWER PACK

(SPP110B)

Technical Specifications:

Auxiliary Supply	: 110v AC / 230v AC (+/- 10% on both cases)
Frequency	: 45 – 55 Hz
Output	: Stored & Non-Stored 110v/ 100W (+/- 10%)
Inrush Current	: < 1A @ 110v Aux Supply
Mounting	: Surface Mounting
Dimension	: 355(L) * 198(W) * 140(H)
Terminal	: Covered Screw Type Terminals.
Operating Temperature	: -10°C to 55°C
High Voltage test	: 2500v AC RMS, 50Hz for 1 minute is applied between Earth and All terminals

LED Indication:

1. Power ON (Green) – While AC is given (Power ON) led will glow.
2. Battery Charging (Yellow) – While charging (Battery Charging) led will glow. While full charge condition (Battery Charging) led will not glow (Charging time 6 – 8 hours).
3. Output ON (Red) – While a switch is ON (Output ON) led will glow.
4. Power mode (Red) – While POWER PACK is connected to main supply (Power Mode) led will glow.
5. Battery mode (Red) – While POWER PACK is connected to Battery supply (Battery Mode) led will glow.

Output Switch – While switch is ON, the POWER PACK will produce the output.

Fuse Holder – It's for POWER PACK Safety purpose.

Application:

- During any Fault condition in a system, Protective relays primarily operate to provide impulse to Trip Coil Breaker.
- In majority of installations, DC supply is obtained from Battery to Trip/Close Breaker.
- In such a case POWER PACK can be conveniently used for obtaining DC supply for Trip & Close operations.

Description:

- POWER PACK rectifies Input AC auxiliary supply and stores DC energy in Battery. This stored Dc energy is made available to Trip/Close Breaker, when situation arises.

- Rating of battery & other related components are based on Input/output Voltages, No. of Trip/Close operations required and other parameters related to specific application of product.
- All above components are housed in Powder coated Sheet Metal Enclosure, with neat labels for Input & Output Terminals.

Stored Output-1 (Rated in W/Sec)

Provides stored DC Energy for Trip & Close Operations.

Note:

Except Trip & Close coils, No other loads should be connected to this output, to facility Primary function of power pack.

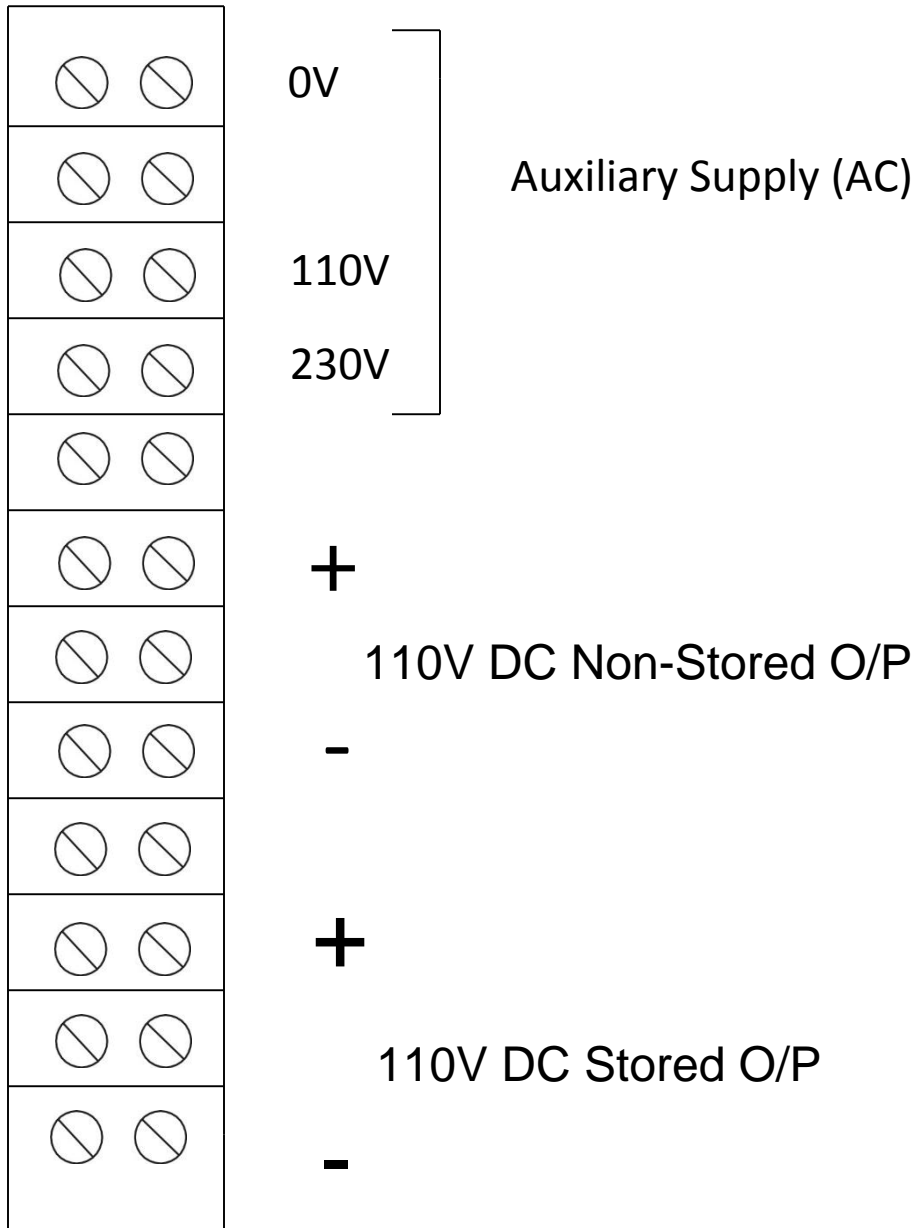
Important Notes:

1. POWER PACK employs Battery.
2. Self-life factor is hence applicable, when POWER PACK is unused beyond 2 weeks
3. When AC input to POWER PACK is available POWER PACK shall be able to perform any Number of shunt Trip & Close Operations
4. Whereas, when input AC to POWER PACK has failed POWER PACK shall Power the calculated / predetermined Trip & Close Operations only.

Calculating required unit Watts:

1. WSec(Stored) is calculated as $W * Sec * (\text{No. of Trip \& Close operation required})$

Terminal connection:



Dimensions:

