



Proactive Monitoring

USER MANUAL
POWER PACK
(SPP24B)

Technical Specifications:

AuxiliarySupply : 110v AC / 230v AC (+/- 10% on
bothcases)

Frequency : 45 – 55Hz

Output : Stored & Non-Stored 24v/ 80W (+/-
10%)

InrushCurrent : < 1A @ 110v AuxSupply

Mounting : SurfaceMounting

Dimension : 355(L) * 198(W) *140(H)

Terminal : Covered Screw TypeTerminals.

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 (Red) – While AC is given (Power ON) led will glow.
2. Battery Charging (Blue)–While charging (Battery Charging) led will glow. While full charge condition (Battery Charging) led will not glow (Charging time 6 – 8 hours).
3. Low Battery(Red)-while Low battery led will glow.
4. Stored ON (Red) – While a switch is ON (Stored ON) led will glow.
5. Non-Stored ON (Red) – While a switch is ON (Non-Stored ON) 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:

