External wiring diagram



100VDC

SUPPLY 100-270VAC

Dimensions Details



Proton power Control Pvt. Ltd. was established in 1988 with a vision to provide committed to design, development, innovative products and reliable solutions for manufacturing and supply of professional optimum power management, added many electronic equipment for the customer and more professional electronic systems and strive for their complete satisfaction. products through in-house Design and Development.

equipment among these systems. After studying numerous site requirements, Proton the expectations and demands of the technology. customer.

certified, latest testing setup, as per IEC customer satisfaction and service support. standards & EMI EMC tested.

We, at Proton Power Control, are

We cater to customer requirements, which are dynamically changing due to advancement Microcontrollers with their inherent of technology. Our strength is to adapt to advantages are being increasingly used in the these changes and bring out solutions in the industry. Any manufacturing controlling form of products and systems in a minimal system requires centralized and accurate throughput time, without sacrificing on monitoring. Annunciator is one of the quality, reliability and delivery commitments.

We achieve quality through high level of commitment to it while optimizing costs. This Power Control Pvt. Ltd. have developed and has been possible due to continued perfected the Annunciator with latest improvement in the areas of design, technology. The user-friendly design fulfills operations and an ability to embrace latest

We continuously invest in our technology In house design facility, timely delivery, CE base, maintain a strong team with an eye on



Providing excllence with Latest technology | Customized solution | Timely delivery

PROTON POWER CONTROL PVT. LTD.

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Note : 1. All products have not been included in this catalogue, we provide Annunciators from 1-64 windows / Points with all possible combinations. 2. Proton Power Control Pvt. Ltd. reserves the right to change / modify any or all specifications mentioned in this catalogue without any prior notice.



An ISO 9001-2015 Certified Company

Power Pack with Battery Backup



www.protonelectronic.com





The power pack is used as a power source for control panels in substations where station battery supply is not available. Power Pack gets charged from mains. It can supply DC connected loads for operating close & trip coils and other essential loads such as auxiliary supply to protection relays etc.

Scope

The scope of the user's manual is limited to the product named Power Pack with Battery Back-Up, the product manufactured; Marketed and Serviced by Proton Power Control Pvt. Ltd. User should not refer this manual for using any other power pack other than Proton's make. The scope is further limited o the extent of technical specifications enlisted in this user's manual only.

Salient Features

- Complete protection from unhealthy condition.
- Protected against Short circuit, over voltage & over load.
- Suitable for all types of Breakers.
- Switch mode power supply (SMPS) Technology.
- Reliable Backup from Battery.
- Various indications to indicate various faults and status.

Technical Specification

Input Voltage	: 90-270VAC/DC
Input Burden	: At no load condition Less than
	50 Watt during charging period
Output Voltage	: O/P Specification
	• 24V DC, 4A
	• 30V DC, 3.3A
	• 48V DC, 2A
	• 110V DC, 1A
	• 220V DC, 0.5A

PROTON

Output Load : With AC Input ON (Mains Mode)

Continuous Load: 100 WattImpulse Load: 450 W for

: 450 W for 240 m Sec. (Impulse Load to occur in addition to continuous load with a gap of 15 sec.)

With AC Input OFF (Back-Up Mode)

Continuous Load Impulse Load

: 450W for 240mSec. (To occur in	
addition to continuous load	
with a gap of 1min. for total	
time of 10Min)	

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Battery Charging Period: 8Hrs.Back-up Period: 15Min at 100W load.

Protection

Over Voltage Protection

If the output voltage rises above 20% of the specified level then the over voltage protection circuit will be activated and output is clamped approx 120 %(Max) of specified voltage.

: 100 Watt

Short circuit Protection

Whenever output is short circuited, output will be temporarily disabled. When Short circuit condition is removed output will come back to nominal value automatically, without any manual reset.

Over Load Protection

If the output currents increase beyond the specified level it reduces the output voltage so as to control the output current. Over Load Protection has been provided on the output side, overload sensing circuit continuously monitor the output current. When overload condition is removed output will come back to normal value automatically, without any manual reset.

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Indications

Various indications are provided in front side of the unit in order to indicate various fault and status. They are as * follows

MAINSON

When the input mains supply is present with healthy condition, this LED will glow to indicate that the MAINS is ON.

OUTPUT ON

This LED indicate status output, whether it is present or not.

BATTERY LOW

When the input mains supply is not present or less than specified voltage & the battery power is reducing , this LED will glow.

CHARGING ON

If the input main supply is present then this LED will glow.

lnstruction

- * Before applying power check all the connections properly.
- $* \quad {\rm Keep\,output\,Switch\,in\,OFF\,position\,during\,transit.}$
- * Battery can be charged in switch off condition, for charging input power is necessary.
- * To charge battery fully eight hours will required.
- Initially unit will start with input power only, when input fails battery will provide power for 10 min with 100W load.
- * If kept unused for more than sixed months unit must be powered on for charging else battery may be

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