RHINO PSM24-BFM600S Buffer Module

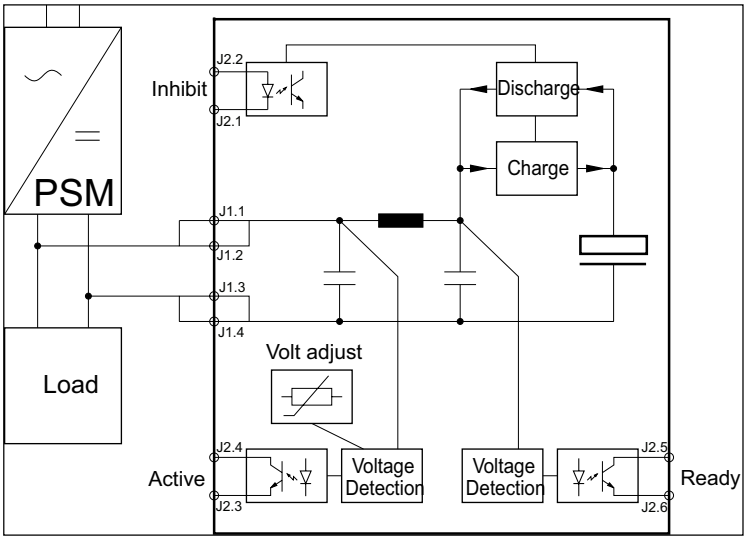
The buffer module will maintain the output voltage of a 24 VDC power supply after brownouts or voltage dips for up to 200 ms at 25 amps. It is a cost effective alternative to a battery-based backup system. The operation modes are indicated by an LED on the front panel.

Storing the energy in a capacitor bank, this backup solution is completely maintenance free. Its storage capacity does not deteriorate over the lifetime of the unit.

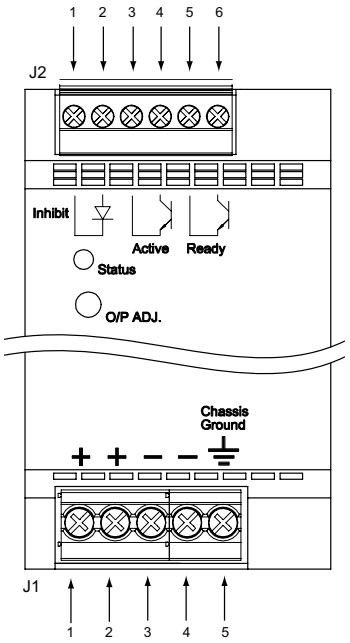
Buffer Module						
Part Number	***Price***	***Drawing Link***	***Input***	***Operating Voltage Range***	***Buffer Time***	***Output Power Max***
PSM24-BFM600S (includes terminal plugs)	Retired	PDF	24 VDC	22 to 28VDC	200 msec typical @ 25A max load 4.0 sec maximum @ 1.2A load	25.0A [600W]

General Specifications	
Operating Temperature	-25 to +70 °C max [-13 to +158 °F], derating above 40 °C [104 °F]
Electromagnetic Compatibility	In correspondence to connected units [no internal switching device]
Buffer Voltage	Adjustable, >1 V below input voltage, min. 22 VDC
Charging	0.6A max/30s max
Status Signals	Buffer Active, Buffer Ready [optocoupler output], dual-color LED for status indication
Inhibit Input	Optocoupler input: supply between 5 VDC and 28 VDC to Inhibit
Signal Output Ratings	10 mA

Buffer Module Function Diagram



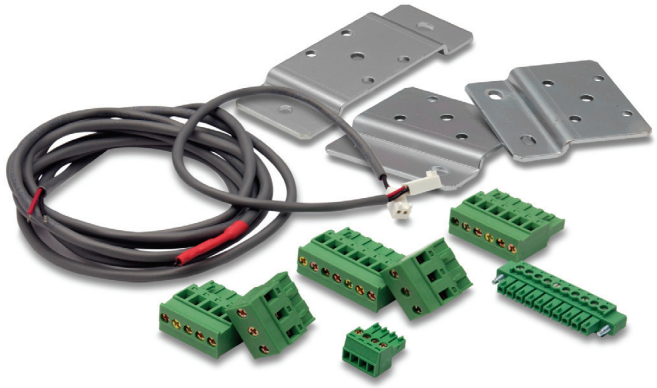
Buffer Module Connector Positions



Wiring Connections		
Pin	***J1***	***J2***
1	+ Vin	Inhibit GND
2	+ Vin	Inhibit +
3	- Vin	Active GND
4	- Vin	Active Signal
5	FG	Ready GND
6	—	Ready Signal

RHINO Power Supplies - Accessories
PSM Series

A variety of accessories is available to complement the RHINO PSM power supplies. Choose panel mounting brackets and replacement plug kits from the table below, based on the size of the power supply. There is also a temperature sensor for the battery control module and replacement link cable for the redundancy and battery control modules.



Accessories			
Part Number	***Price***	***Drawing Link***	***Description***
PSM-PANEL1	$46.50	PDF	Panel mounting bracket. 1 bracket type A includes M4-screw [DIN 74-4fA] for 78W, 90W, 156W, 180W PSM power supplies
PSM-PANEL2	$40.00	PDF	Panel mounting bracket. 2 brackets type A include M4-screws [DIN 74-4fA] for 360W, 600W PSM power supplies
PSM-PK1	$8.75	N/A	Replacement plug kit for PSM series with 78W and 90W outputs
PSM-PK2	$12.50	N/A	Replacement plug kit for PSM series with 156W, 180W and 360W outputs
PSM-TS	$40.50	N/A	Temperature sensor for PSM24-BCM360S battery control module
PSM-JC01	$9.25	N/A	Replacement link cable for PSM series redundancy module PSM24-REM360S and battery control module PSM24-BCM360S

Mounting

PSM power supplies are designed for mounting on a DIN rail. Please allow minimum free space of 80mm (3.15in) above and below, and 50mm (1.97in) on each side of the power supply for air convection. To attach unit onto the DIN rail, hook the top part of clip on DIN rail, then push down and inward until you hear the clipping sound. To remove, pull the latch of the clip using an insulated flathead screwdriver.

For wall or chassis mounting, use mounting brackets PSM-PANEL1 (for 78W to 180W PSM style power supplies) or PSM-PANEL2 (for 360W and 600W PSM power supplies). Remove the DIN clips and replace with the brackets. Use the countersink screws included with the wall mount kit to attach the brackets to the power supply.

To attach the power supply to the DIN rail

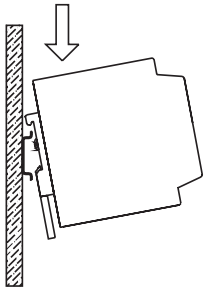


Fig. 2.1

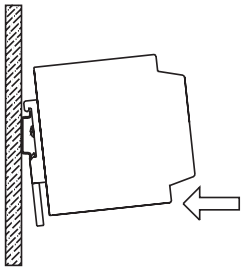


Fig. 2.2

To remove the power supply from DIN rail

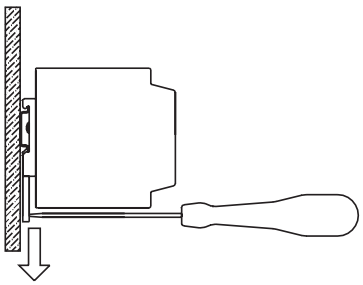


Fig. 2.3

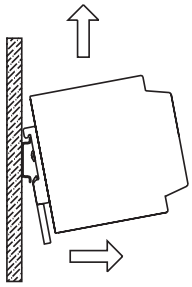


Fig. 2.4