

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 200ms 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.

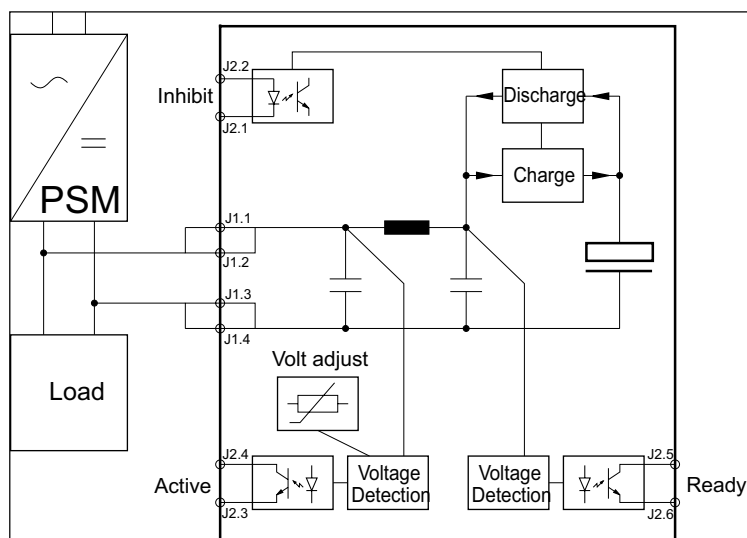
Buffer Module

| Part Number | Price | Drawing Link | Input | Operating Voltage Range | Buffer Time | Output Power Max |
|---|-----------|---------------------|-------|-------------------------|--|------------------|
| PSM24-BFM600S (includes terminal plugs) | \$;0072!: | PDF | 24VDC | 22 to 28VDC | 200 msec typical @ 25A max load 4.0 sec maximum @ 1.2A load | 25.0 A [600W] |

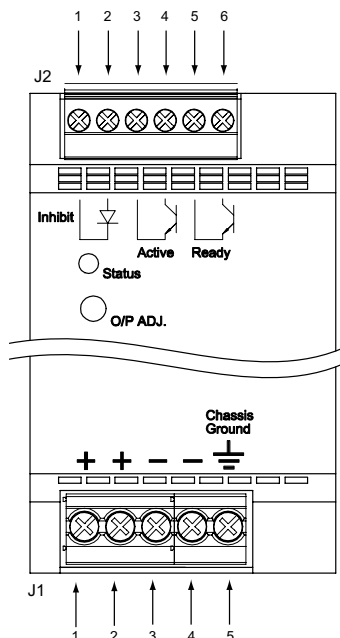
General Specifications

| | |
|--------------------------------------|--|
| 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 | 0.6 A max/30s max |
| Status Signals | Buffer Active, Buffer Ready [optocoupler output], dual-color LED for status indication |
| Inhibit Input | Optocoupler input: supply between 5VDC and 28VDC to Inhibit |
| Signal Output Ratings | 10mA |

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 | \$05n#: | PDF | Panel mounting bracket. 1 bracket type A includes M4-screw [DIN 74-4fA] for 78W, 90W, 156W, 180W PSM power supplies |
| PSM-PANEL2 | \$;05n!: | PDF | Panel mounting bracket. 2 brackets type A include M4-screws [DIN 74-4fA] for 360W, 600W PSM power supplies |
| PSM-PK1 | \$6c5: | N/A | Replacement plug kit for PSM series with 78W and 90W outputs |
| PSM-PK2 | \$06c6: | N/A | Replacement plug kit for PSM series with 156W, 180W and 360W outputs |
| PSM-TS | \$06uo: | N/A | Temperature sensor for PSM24-BCM360S battery control module |
| PSM-JC01 | \$-4nl: | 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 80 mm (3.15") above and below, and 50 mm (1.97") 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

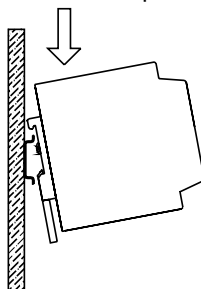


Fig. 2.1

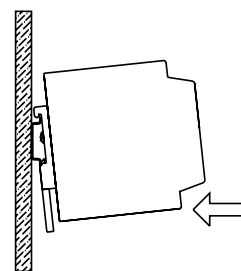


Fig. 2.2

To remove the power supply from DIN rail

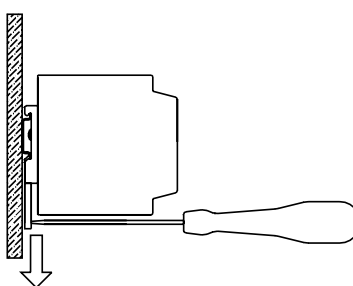


Fig. 2.3

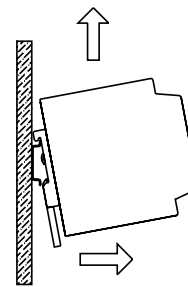


Fig. 2.4