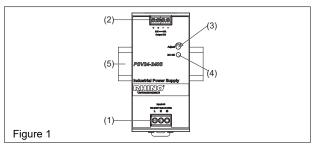
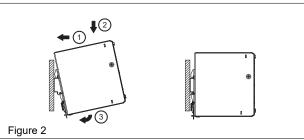
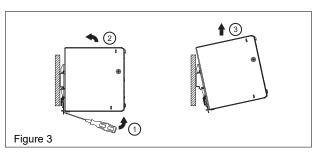
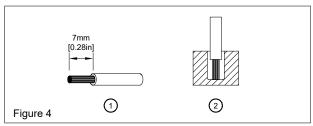
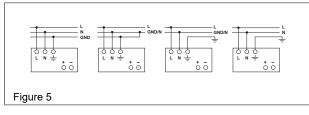
RHINO PSV24-240S Power Supply

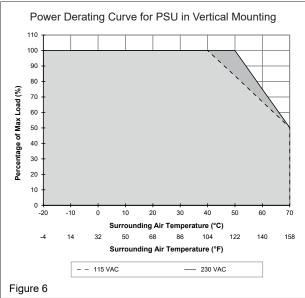












READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.

1. Safety instructions

- Switch main power off before connecting or disconnecting the device. Risk of explosion!
- If the unit is used in a manner not specified by the manufacturer, the protection provided by the
 equipment may be impaired.
- To guarantee sufficient convection cooling, please keep a distance of 50mm above and 18cm below the device as well as a lateral distance of 10mm to other units.
- Note that the enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Risk of burns!
- The main power must be turned off before connecting or disconnecting wires to the terminals!
- Do not introduce any objects into the unit!
- Dangerous voltage present for at least 5 minutes after disconnecting all sources of power.
- The power supplies are built-in units and must be installed in a cabinet or room (condensation free environment and indoor location) that is relatively free of conductive contaminants.
- · The unit must be installed in an IP54 enclosure or cabinet in the final installation.
- CAUTION: FOR USE IN A CONTROLLED ENVIRONMENT.

2. Device description (Fig. 1)

- (1) Input terminal block connector
- (2) Output terminal block connector
- (3) DC voltage adjustment potentiometer
- (4) DC OK LED (green)
- (5) Universal mounting rail system

3. Mounting (Fig. 2)

The power supply unit can be mounted on 35mm DIN rails in accordance with EN60715. For vertical mounting, the device should be installed with input terminal block on the bottom.

Each device is delivered ready to install.

Snap on the DIN rail as shown in Fig. 2:

- 1. Tilt the unit slightly upwards and put it onto the DIN rail.
- 2. Push downwards until stopped.
- 3. Press against the bottom front side for locking.
- 4. Shake the unit slightly to ensure that it is secured.

4. Dismounting (Fig. 3)

To uninstall, use a flat screwdriver to pull or slide down the latch as shown in Fig. 3. Then slide the PSU in the opposite direction, release the latch and pull out the PSU from the rail.

E Commodian

The terminal block connectors allow easy and fast wiring.

You can use flexible (stranded wire) or solid cables with cross sections:

Electrical Connections and Wire Size					
	Stranded / Solid		Torque		
	mm²	AWG	N∙m	lb-in	
Input	1.3-3.3	16-12	1.01	9	
Output	1.3-3.3	16-12	0.68	6	

To secure reliable and shock proof connections, the stripping length should be 7mm (see Fig. 4 (1)). Please ensure that wires are fully inserted into the connecting terminals as shown in Fig. 4 (2). All wire strands must be fully inserted into the terminals with the screws securely fastened in order to ensure safety and maximum contact.

In accordance to EN60950 / UL60950, flexible cables require ferrules.

Use appropriate copper cables that are designed to sustain operating temperature of at least $60^{\circ}\text{C}/75^{\circ}\text{C}$ or more to fulfill UL requirements.

5.1. Input connection (Fig. 1, Fig. 5)

Use L, N and GND connections of input terminal connector (see Fig. 1 (1)) to establish the 100-240 VAC connection. Typical connection methods are shown in Figure 5.

The unit is protected with an internal fuse (not replaceable) at L pin and it has been tested and approved on 20A (UL) and 16A (IEC) branch circuits without additional protection device. An external protection device is only required if the supplying branch has an ampacity greater than above.



The internal fuse must not be replaced by the user.

5.2. Output connection (Fig. 1 (2))

Use the "+" and "-" screw connections to establish the 24VDC connection. The output provides 24VDC. The output voltage can be adjusted from 22 to 28 VDC on the potentiometer. The green LED DC OK displays correct function of the output (Fig. 1 (4)). The device has a short circuit and overload protection and an overvoltage protection limited to 28.8-35.2 VDC.

5.3. Output characteristic curve

The device functions normal under operating line and load conditions. In the event of an overload ($I_O = 105-150\%$) the output voltage will start to droop until overload has been removed.

5.4. Thermal behavior (Fig. 6)

In the case of ambient temperatures:

- 1. Above +40°C [104°F] (115VAC), the output capacity has to be reduced by 1.67% per degree Celsius increase in temperature.
- Above +50°C [122°F] (230VAC), the output capacity has to be reduced by 2.5% per degree Celsius increase in temperature.

If the output capacity is not reduced when $T_{\rm Amb} > 40^{\circ}{\rm C}$ [104°F] (115VAC) or $> 50^{\circ}{\rm C}$ [122°F] (230VAC), the device will engage thermal protection by switching off, i.e., the output voltage will go into latch-off mode until the component temperature cools down and the AC power is recycled.

RHINO PSV24-240S Power Supply

Timester	Technical Specifications				
Name of large A Hayaranay 193-240 VASC 750 CBH	Input (AC)	Tooliiii car opoomoationo			
Asserting the property of the		100-240 VAC / 50-60 Hz			
Fingurery The state of the control (25°C, cold start) The control control (25°C, cold start) The control of the cold start (128 Aug. 62 (138 Aug.		1			
Commission Com					
Intention continued (CSPT), and start) White bulleting a commist (and typ.) Filter bulleting a commistance bulleting a commistance bulleting a commistance bulleting a commistance bulleting and the commission of the commission		2.8 A tvp. @ 115VAC. 1.4 A tvp. @ 230VAC			
Marie Duffeling at mornal lead (bp.) 100m lays (9.1199AC (100% lead)					
Turn-en time 100ms ye = 10 solve. (10 ms to 10 ms to 10 ms ye = 10 solve.) Turn-en time 100ms ye = 10 solve. (10 ms to 10 ms to	` ' '	10ms typ. @ 115VAC (100% load)			
Information Info A 7200 from remoterability Colorange Control Colorange Colo					
Lineage comment Collegate (CD) December of the process of the pr					
Comparing analysis of the property of the pr					
Nominal early voltage U ₁ , Italianance 2.2.2 M/S (constituting power 2.20%) Output current 1.0.6 Deciding 3.40°C (1.67%/C) at 1150% (195.20% MAC) 5.50°C (2.87%/C) (2.920% (2.920% VAC) 5.50°C (2.97%/C) (2.97%/C) (2.97%/C) 6.10°C (2.97%/C) (2.97%/C)	- v	< 1mA @ 264VAC			
22-28 VIDC (Insertions power < 24/00V)					
Departure TOA Part to Fig. 6 Part	· • N				
Dending Service (1974) per 15 (1974)	<u> </u>				
Searting	Output current				
	Derating	> 40°C (1.67%/°C) @ 115VAC (90-229 VAC)			
Max. power dissipation idling / nominal load approx. 2.1.14 Wile 2300/4C (100% load)	Startup with capacitive loads				
State We 200/AC (100% load)	Max. power dissipation idling / nominal load approx.	2.14 W @ 230VAC (0% load)			
PAPED (200MHz) at 100% load		25.44 W @ 230VAC (100% load)			
PROBLEMENT OF THE PROBLEMS AND ASSESSED AS CONTROL OF THE PROBLEMS AND ASSESSED ASSE	Efficiency at 100% load				
Parallel operation General Data Type of housing SGCC (Case Cover) / Aluminum (Case Chessis) LED signals Gener LED DC OK MTBF 700,000 hts. as per Telecordia Dimensions (L x W x H) 123 6 mm x 60mm x 117.6 mm [4.87 in x 2.56 in x 4.58 in [4.88 www.AutomationDirect.com for complete engineering drawings.] Weight Questing Interpretative (surrounding air temperature) Screw correction method Singaping temperature (surrounding air temperature) 7mm (0.28 in) Questing interpretative (surrounding a	PARD (20MHz) at 100% load				
Specification Specificatio	Parallel operation				
Sect Clase Covert / Aluminum (Case Chassis)	'				
LED signals Green LED DC OK MTRF 123 6 mm x 60mm x 117.6 mm [487 in x 2.36 in x 4.68 in (See www.AutomationDirect.com for complete engineering drawings.) Weight 123 6 mm x 60mm x 117.6 mm [487 in x 2.36 in x 4.68 in (See www.AutomationDirect.com for complete engineering drawings.) Weight 28 08 kg [28 cc] Screw connection Sthorping length 7mm [0.28 in] Operating lemperature 4-0°C to x 470°C [-47°F to -185°F] (Refer to Fig. 6) Storage temperature 4-0°C to x 470°C [-47°F to -185°F] Will multiplity at 2.5°C, no condensation Vibration Operating: IEC50088-2-6, Sine Wave 100 for a duration of 11ms, shock for 1 direction Non-Operating: IEC50088-2-27, Hall Sine Wave 100 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC50088-2-27, Hall Sine Wave 100 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC50088-2-27, Hall Sine Wave 100 for a duration of 11ms, shocks for each 3 directions 2000m for ITE application Certification and Standards Safety entry low voltage Electrical safety (of information technology equipment) Influstration control equipment CE Component power supply for general use Incontormance with EMC directive 2014/30/EU and Low Voltage Directive 2014/35/EU Emission ENSSO2E, PISSO11, ENSTO00-4-2, 3, 4, 5, 6, 8, 11, 12) Emission ENSSO2E, PISSO11, ENSTO00-4-2, 3, 4, 5, 6, 8, 11, 12) Emission ENSSO2E, PISSO11, ENSTO00-4-2, 3, 4, 5, 6, 8, 11, 12) Ensisten En		SGCC (Case Cover) / Aluminum (Case Chassis)			
MTBF					
Weight 0.80 kg [28 oz] Connection method Sover commettion Stripping length 7mm [0.28 in] Operating temperature (surrounding air temperature) -20°C to +70°C t-4°F to +158°F [(Refer to Fig. 6) Storage temperature (surrounding air temperature) -20°C to +70°C t-4°F to +158°F [(Refer to Fig. 6) -40°C to +38°C t-40°F to +188°F [(Refer to Fig. 6) -3 to 95% RH Humidity at +25°C, no condessation Operating: IEC00088-2-6. Sine Water: 10Hz to 500Hz 62° 15 from (26 peak). (10min per cycle, 60min for X direction Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shocks for each 3 directions -2000m for industrial application -20	MTBF	> 700,000 hrs. as per Telcordia			
Weight 0.80 kg [28 oz] Connection method Sover commettion Stripping length 7mm [0.28 in] Operating temperature (surrounding air temperature) -20°C to +70°C t-4°F to +158°F [(Refer to Fig. 6) Storage temperature (surrounding air temperature) -20°C to +70°C t-4°F to +158°F [(Refer to Fig. 6) -40°C to +38°C t-40°F to +188°F [(Refer to Fig. 6) -3 to 95% RH Humidity at +25°C, no condessation Operating: IEC00088-2-6. Sine Water: 10Hz to 500Hz 62° 15 from (26 peak). (10min per cycle, 60min for X direction Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC00088-2-7. Haif Sine Wave: 105 for a duration of 11ms, shocks for each 3 directions -2000m for industrial application -20	Dimensions (L x W x H)				
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Comparing temperature (surrounding air temperature)	Connection method	Screw connection			
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Humidity at +25°C, no condensation Operating: IEC60068-2-6, Sine Wave: 10th to 500th-20 15.6m/s² (25 peak); 10min per cycle, 60min for X direction Non-Operating: IEC60068-2-6, Random: 5th to 500th-20 15.6m/s² (25 peak); 10min per cycle, 60min for X direction Non-Operating: IEC60068-2-7, Half Sine Wave: 10f for a duration of 11ms, shock for 1 direction (X axis) Non-Operating: IEC60068-2-7, Half Sine Wave: 10f for a duration of 11ms, shock for direction (X axis) Non-Operating: IEC60068-2-27, Half Sine Wave: 10f for a duration of 11ms, shock for direction (X axis) Non-Operating: IEC60068-2-27, Half Sine Wave: 10f for a duration of 11ms, shock for each 3 directions 2 duration of 11ms, shock for each 3 directions Pollution degree 2 duration of 11ms, shock for each 3 directions 2 direction and Standards Sately entry low voltage SELV (EN60950) UL/C-UL recognized to UL6950-1 and CSA C22 No. 60950-1 (File No. E196298), CB scheme to IEC60950-1 Industrial control equipment UL/C-UL listed to UL508 and CSA C22 No. 60950-1 (File No. E196298), CB scheme to IEC60950-1 Industrial control equipment power supply for general use UL/C-UL listed to UL508 and CSA C22 No. 60950-1 (File No. E196298), CB scheme to IEC60950-1 Industrial control equipment power supply for general use Immunity Immun	Operating temperature (surrounding air temperature)	-20°C to +70°C [-4°F to +158°F] (Refer to Fig. 6)			
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Pollution degree 2 Altitude (operating) 2000m for industrial application 5000m for Irical for Irical application 5000m for Irical for Ir	Shock	Operating: IEC60068-2-27, Half Sine Wave: 10G for a duration of 11ms, 3 shock for 1 direction (X axis) Non-Operating: IEC60068-2-27. Half Sine Wave: 50G for a duration of 11ms, 3 shocks for each 3 directions			
Solution	Pollution degree				
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Industrial control equipment UL/C-UL listed to UL508 and CSA C22.2 No.107.1-01 (File No. E197592) CE In conformance with EMC directive 2014/30/EU and Low Voltage Directive 2014/35/EU Component power supply for general use EN61204-3 Immunity EN55024, EN61000-6-1, EN61000-6-2 (EN61000-4-2, 3, 4, 5, 6, 8, 11, 12) Emission EN55032, EN55011, EN61000-3-2 Class A, EN61000-3-3, EN61000-6-4 Voltage Sag Immunity SEMI F47 - 0706 @ 200VAC C Safety and Protection Transient surge voltage protection Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage: Input / Output / PE Output / PE Output / PE Output / PE Caset with PE connection Class I with PE connection	, ,	` '			
In conformance with EMC directive 2014/30/EU and Low Voltage Directive 2014/35/EU Component power supply for general use EN55024, EN61000-6-1, EN61000-6-2 (EN61000-4-2, 3, 4, 5, 6, 8, 11, 12) Emission EN55032, EN55011, EN61000-3-2 Class A, EN61000-6-3, EN61000-6-4 Voltage Sag Immunity SEMI F47 – 0706 @ 200VAC C C Uses E198298 ROHS Compliant Yes Safety and Protection Transient surge voltage protection Current limitation at short-circuits approx. Isurge = 105-150% or Po _{max} typically Surge voltage protection against internal surge voltages Isolation voltage: Input / output Input / PE Output / PE Output / PE Output / PE Protection degree Safety class Class I with PE connection	, , , , , , , , , , , , , , , , , , , ,				
EN51204-3 EN51204-3 EN55024, EN61000-6-1, EN61000-6-2 (EN61000-4-2, 3, 4, 5, 6, 8, 11, 12) Emission EN55032, EN55011, EN61000-3-2 Class A, EN61000-6-3, EN61000-6-4 Voltage Sag Immunity EN55032, EN55011, EN61000-3-2 Class A, EN61000-3-3, EN61000-6-4 Voltage Sag Immunity Emission EN55032, EN55011, EN61000-3-2 Class A, EN61000-6-3, EN61000-6-4 Voltage Sag Immunity Emission Yes En98298 End. Cont. Eq. Yes En98298 End. Cont. Eq. Yes En98298 End. Cont. Eq. End. Cont. Eq. Yes En98298 End. Cont. Eq. En98298 End. Cont. Eq. End. Cont. End. End. Cont. End. End. Cont. End. End. End. End. End. End. End. End					
Immunity		1 1 0 1 1			
Emission EN55032, EN55011, EN61000-3-2, Class A, EN61000-6-3, EN61000-6-4					
Voltage Sag Immunity SEMI F47 – 0706 @ 200VAC LISTED LUS E197592 LISTED LUS E198298 RoHS Compliant Yes Safety and Protection Transiet surge voltage protection Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage: Input / output Input / PE Output / PE Out	Immunity				
RoHS Compliant Yes Safety and Protection Transient surge voltage protection Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage: Input / output Input / PE Output / PE Output / PE Output / PE Safety class Safety and Protection Varistor Vary Varistor Varistor Varistor Varistor Vary Varistor	Emission	EN55032, EN55011, EN61000-3-2 Class A, EN61000-3-3, EN61000-6-3, EN61000-6-4			
RoHS Compliant Yes Safety and Protection Transient surge voltage protection Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage:	Voltage Sag Immunity	SEMI F47 – 0706 @ 200VAC			
Safety and Protection Transient surge voltage protection Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage: Input / output Input / PE 2kVAC Output / PE 0.5 kVAC Protection degree Safety class Class I with PE connection	C	C U US US E198298			
Transient surge voltage protection Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage: Input / output Input / PE Output / PE Output / PE Output / PE Safety class Varistor Varistor Yes SkVAC SkVAC Ves SkVAC Output / PE Output /	RoHS Compliant	Yes			
Current limitation at short-circuits approx. Surge voltage protection against internal surge voltages Isolation voltage: Input / output Input / PE Output / PE Output / PE Output / PE Safety class Isolation against internal surge voltages Isolation voltage: Input / output 3kVAC 2kVAC 0.5 kVAC Input / PE O.5 kVAC IP20 Class I with PE connection	Safety and Protection				
Surge voltage protection against internal surge voltages Yes Isolation voltage: 3kVAC Input / output 3kVAC Input / PE 2kVAC Output / PE 0.5 kVAC Protection degree IP20 Safety class Class I with PE connection	Transient surge voltage protection				
Isolation voltage: 3kVAC Input / output 3kVAC Input / PE 2kVAC Output / PE 0.5 kVAC Protection degree IP20 Safety class Class I with PE connection	Current limitation at short-circuits approx.	I _{surge} = 105-150% or Po _{max} typically			
Input / output 3kVAC Input / PE 2kVAC Output / PE 0.5 kVAC Protection degree IP20 Safety class Class I with PE connection	Surge voltage protection against internal surge voltages	Yes			
Input / PE 2kVAC Output / PE 0.5 kVAC Protection degree IP20 Safety class Class I with PE connection		01140			
Output / PE 0.5 kVAC Protection degree IP20 Safety class Class I with PE connection	inpul / Oulpul Input / PE				
Protection degree IP20 Safety class Class I with PE connection					
Safety class Class I with PE connection	Protection degree	IP20			
	Safety class	Class I with PE connection			