RHINO PSH-xx-080 Power Supplies

Installation Instructions

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

Safety Instructions and Warnings

- Do not open the device!
- Before any installation or maintenance, ensure that the main switch is switched off and prevented from being switched on again.
- The device must be installed and put into service by qualified personnel only.
- Never work on the device if power is applied.
- Risk of electric arcs and electrical shock, which can cause death, severe personal injury or substantial property damage.
- The unit must be connected to the mains supply in compliance with national regulations (e.g., VDE0100 and EN50178). All wire strands must be fastened in the terminal blocks. (Potential danger of contact with the case.)
- All input and output wires must be properly rated for the power supply and must be connected with the correct polarity (Fig. 3).
- · The Power Supply wiring must be sufficiently fused.
- · Sufficient cooling must be ensured (Fig. 2).
- · Do not introduce any objects into the device.
- The output voltage adjustment potentiometer may only be actuated using an insulated screwdriver.
- · Keep away from fire and water.
- The internal fuse is not accessible. If this internal fuse has blown, the power supply has an internal defect and, for safety reasons, must be replaced.
- This device is designed for use in a clean, dry environment.
- The device must be mounted in an enclosure in the end application and must not be accessible in operation.

Installation Instructions

- The device can be mounted onto 35mm DIN rails, compliant with the specifications of DIN EN 50022. Observe the requirements for ventilation space above and below the device (Fig. 2).
- The standard mounting orientation is with input terminals at the bottom.
- Alternative side-mounting for flat panels: The case offers the potentially useful feature to fix the DIN-rail clip to the side wall to mount inside flat panels.

Recycling

 The device contains elements that are suitable for recycling, and components that need special disposal. You are therefore requested to make sure that the device will be recycled at the end of its service life.

Notes for Technical Specifications Table:

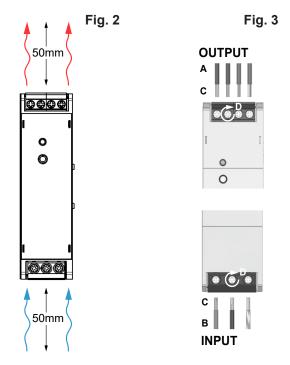
- Output voltage can be adjusted as indicated. However, output power has to be maintained at nominal value. This
 means the output nominal current has to be reduced in accordance with the increase of output voltage.
- 2. In case of an internal error, a second voltage regulation loop keeps the output voltage at a safe level, and the power supply turns off and restarts after 10 seconds.
- When external voltage is supplied above set output voltage and below OVP threshold, the power supply will function normally without switch off or destruction, even if external voltage is applied continuously.
- In case of overload or short circuit, the unit switches the output voltage off after 4 seconds and tries to restart every 10 seconds

	Technical Specifications PSH-12-080 PSH-24-080 PSH-48				
Input (AC)		PSH-12-080	PSH-24-080	PSH-48-080	
Nominal Input Voltage	e	100-240 VAC			
Nominal Input Current		2–0.9 A			
Operational Input Voltage Range		85–264 VAC			
Input Voltage Frequency Range Inrush Current (115/230 VAC)		45–65 Hz 15/30 A			
Standby Power Consumption		0.9/1.45 W (115/230 VAC)			
Active Power Factor Correction (PFC)		0.48/0.48 (115/230 VAC)			
Harmonic limits – acc. EN 61000-3-2		Class A			
Circuit Breaker Rating Output (DC)	/ Characteristic	6-16 A /B, C (IEC); 20	A /B, C (USA)		
Max. Output Power		80W			
Output Voltage		12V	24V	48V	
Max. Output Current / Max. Output Current 4s ("Boost power" which facilitates the activation of stepper motors, solenoids or actuators)		6.7 A / 10A	3.4 A / 5A	1.7 A / 2.5 A	
Output Voltage Adjustment Range Typical Efficiency (230 VAC)		11.8–15 V 88%	23.5–28 V 90%	47.5–56 V 90%	
Regulation Input Variation Load Variation		0.1 % max. (10–90 %) 0.5 % max.			
Output Power Deratin		2%/K above 60°C, refer to Fig. 5			
Output Power Deratin	g - Input Voltage	3%/V below 90 VAC, refer to Fig. 4			
Hold-up time Start-up time		20/160 ms min. (115/230 VAC) 2s max.			
	MHz bandwidth) (Note 1)	100 mVp-p max.	100 mVp-p max.	200 mVp-p max.	
	rotection (OVP) (Note 2)	16–19V < OVP level	32–35V	56-60V	
Operation Nominal Operation Peak Power Operation Constant Current (CC)		100% of lout nominal 105–150% of lout nominal 155% of lout nominal			
	and cc mode) (Note 4)				
Threshold CC or Peak Oper	ation Timer	> 105 % 4s max. (switch off)			
Normal Operation	n / Off Period	< 6s typ (automatic res	tart after switch off or peak		
Short Circuit Protection	n T		ay, automatic restart (Note		
	Threshold for Vout	ON: > 10.9 V typ. OFF: < 10.7 V typ.	ON: > 22.5 V typ. OFF: < 21.5 V typ.	ON: > 45V typ. OFF: < 43V typ.	
DC OK Signal	DC ON		max. 1A, < 100m0hm, also		
	DC 0FF	Relay contact open, m	ax 30V		
General Data		007 [40 05 1			
Weight Leakage Current (max	()	367g [12.95 oz]			
Network Configuration		0.75 mA TN-S, TN-C, TT, IT			
Enclosure Material (C		Aluminum / Stainless Steel			
Cooling		Convection cooling, no internal fan			
Over Temperature Protection		Switch off at over temperature Input/Output 4250VDC			
Isolation Voltage		Input/Chassis 1500VE	C		
		Output/Chassis 750VI Input/Output 8mm	DC .		
Creepage Clearance		Input/Chassis 4mm			
	stol	Output/Chassis 1.5 m	m		
		-40°C to ±70°C [-40°	F to ±158°Fl		
		-40°C to +70°C [-40°F to +158°F] 0.02 %/K			
Surrounding Ambient Temperature Coefficie		5–95%, non-condensing			
Surrounding Ambient Temperature Coefficie Humidity					
Temperature Coefficie Humidity Storage Temperature		-40°C to +85°C [-40°			
Surrounding Ambient Temperature Coefficie Humidity		-40°C to +85°C [-40° 2000m	F to +185°F]	D-1, UL 60950-1	
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Scheme

UL508

Identification of Features (Fig.1)				
1	Input Terminal L			
2	Input Terminal N			
3	Input Terminal GND			
4	Output Voltage adjustment potentiometer			
5	DC ON LED			
6/7	DC OK Contact			
8	Output Connection Terminal +			
9	Output Connection Terminal –			



Wiring Specifications (see Fig. 3)				
Α	Wire Size, Output	18–10 AWG		
В	Wire Size, Input	18–10 AWG		
С	Strip Length	10mm [0.39 in]		
D	Tightening Torque	0.7 N·m [6.2 lb·in]		

FOR TECHNICAL ASSISTANCE CALL 770-844-4200

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