RHINO Installation Instructions for PSS12-100 Power Supply

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

- 1. Safety instructions
 - To ensure sufficient convection cooling, always maintain a safety distance of ≥ 20 mm [.79in] from all
 ventilated surfaces while the device is in operation.
 - · The device is not recommended to be placed on low thermal conductive surface, for example, plastics.
 - Note that the enclosure of the device can become very hot depending on the ambient temperature and load
 of the power supply. Do not touch the device while it is in operation or immediately after power is turned OFF.
 Bisk of burning.
 - Do not touch the terminals while power is being supplied. Risk of electric shock.
 - Prevent any foreign material, particles or conductors from entering the device through the openings during
 installation. It can cause electric shock, safety hazard, fire, and/or product failure.
 - Warning: When connecting the device, secure GND connection before connecting L and N. When
 disconnecting the device, remove the L and N connections before removing the GND connection.

2. Device description (Fig. 1)

(1) Input & Output terminal block connector

- (2) DC voltage adjustment potentiometer
- (3) DC OK control LED (green)

3. Installation of the Device (Fig. 2)

A. Mounting holes for power supply assembly onto the mounting surface. Power supply shall be mounted on

minimum 2 mounting holes using M3 x 0.5 screw minimum 5 mm (0.19in) length.

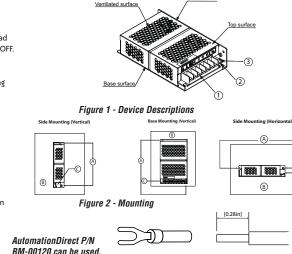
B. This surface belongs to customer's system or panel where the power supply is mounted. C. Connector.

Use flexible (stranded wire) or solid wire 0.32-2.1 mm² (AWG 22-14). The torque at the connector shall not exceed 1.3 Nm (11.3 in-lb). The insulation stripping length should not exceed 0.28 in or 7 mm. AutomationDirect P/N BM-00120 lug or equivalent recommended for stranded wire. Refer to figure 3.

4. Installation of Mounting Accessories (Fig. 4)

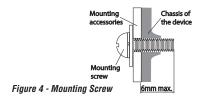
- \cdot Only use M3 screw \leq 6 mm through the base mounting holes. This is to keep a safety distance between the screw and internal compontents.
- Recommended mounting tightening torque: 0.4 to 0.8 Nm (3.5 to 7 in-lb).

FOR TECHNICAL ASSISTANCE CALL 770-844-4200



Side surface

Figure 3 - Wire Type





Technical Data For PSS12-100

Control	Input (AC)	
Nominal content 20.4 Max. @ 11.9 Max. (1.4 Max. @ 22.9 MAC Inside parent limitation. 21 (25 °C) bp. -0.40 # 113Mc. (1.9 Max. @ 23.9 MAC Landage parents -0.40 # 113Mc. (1.9 Max. @ 23.9 MAC Control for that basise (Characteristic B) -0.40 # 113Mc. (1.9 Max. @ 23.9 MAC Onthild Jogith Valge / Adjustment range -1.00 C Output organ -1.00 C		
inside current limitation. 12 (15-70) pp. - 60.4 @ 1134AC, 138. @ 2334AC linking current limitation. 12 (15-70) pp. - 16.4 Animal couplus values (Danaderistic 8) - 16.4 Animal couplus values (Danaderistic 8) - 16.4 Animal couplus values (Danaderistic 8) - 10.04 Output current - 8.33.4 Animal couplus values (Danaderistic 8) - 10.04 Output current - 8.33.4 Animal couplus values (Danaderistic 8) - 4.000-@0006 kead (25-CT/77-FT) Bill time - 5.056, @ 11304C, 248: @ 2230AC with 1000 koad (25-CT/77-FT) Bill time qualitation 0.055, @ 01304C, 248: @ 2230AC with 1000 koad (25-CT/77-FT) Bill time qualitation 0.055, @ 01304C, 248: @ 2230AC Cate courd 0.055, @ 01304C, 248: @ 2230AC Dimensions (L x X +1) 0.055, @ 01304C, 248: @ 2230AC User gualitation 0.055, @ 01304C, 248: @ 2230AC Dimensions (L x X +1) 0.055, @ 01304C, 248: @ 2230AC Dimensions (L x X +1) 0.055, @ 01304C, 248: @ 2230AC Dimensions (L x X +1) 0.055, @ 01304C, 248: @ 230AC Dimensions (L x X +1) 0.056, @ 01304C, 248: @ 01304C, 248: @ 01304C, 248: @ 013	Frequency	
Linkage purint < 1 mA		
Recommendal circuit branker (Denactoristic B) 16A Mominal Codput Voltage / Adjustment range 12VDC / 11-4VDC Output Lorent 0.00W Output Lorent 0.00W PARD (Topic and noise) (20MHz) -00m (20M voltage (Find) and voltage) Start-up time -00m (20M voltage (Find) and voltage) Rest rung time -00m (20M voltage (20M Vol	Inrush current limitation. I2t (+25 °C) typ.	
Outgot (CC) 1200C / 11-14/0C Oxput power 100W Oxput power 100W Oxput power 100W Oxput power 100W Oxput power 8.33A PADP (rippe and notes) (20MHz) <000m/typ (Remainial values)	Leakage current	<1 mA
Nominal Optit voltage / Adjustment range 12/00/C Output power 10/0W Output power 8.33A PAPD Optige and notes) (20MHz) <000m/tput (Brominie Values)	Recommended circuit breaker (Characteristic B)	16A
Output current 100W Dupput current 8.33A PABD (ripple and noise) (20MHz) <1000m/bg (0mminit values)	Output (DC)	
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Start-up ima - 1000me9/10/94. bod (25° C [77° F]) and typical line input Hold-up time > 15ms @ 115VAC, -880ms @ 230VAC with 100W load (25° C [77° F]) Ree time - 0.55ms @ 115VAC, -840% @ 230VAC Entre regulation - 0.55ms @ 115VAC, -540% @ 230VAC Load regulation - 0.55ms @ 115VAC, -544% @ 230VAC Case cover - 0.55ms @ 115VAC, -544% @ 230VAC Dimensions (L xW xH) - 0.55ms @ 115VAC, -544% @ 230VAC Weight - 0.55ms @ 115VAC, -544% @ 230VAC Dimensions (L xW xH) - 0.55ms @ 115VAC, -544% @ 230VAC Weight - 0.55ms @ 115VAC, -544% @ 230VAC Dimensions (L xW xH) - 0.5ms @ 115VAC, -544% @ 120VAC Weight - 0.5ms @ 115VAC, 544% @ 230VAC Miles - 0.5ms @ 115VAC, 544% @ 230VAC Dimensions (L xW xH) - 0.5ms @ 115VAC, 544% @ 120VAC Weight - 10.5ms @ 115VAC, 544% @ 120VAC Miles - 0.5ms @ 115VAC, 544% @ 120VAC Miles - 0.5ms @ 115VAC Miles - 0.5ms @ 115VAC Miles - 0.5ms @ 115VAC Miles and rought - 0.5ms @ 115VAC Miles and rought - 0.5ms @ 115VAC		8.33A
Hold-up line >15ms @ 115VAC, 34ms @ 100W load (28°C (77°F)) Rise line < 34ms @ 100W load (28°C (77°F))	PARD (ripple and noise) (20MHz)	
Rise time < 30ms @ 109% load 25% (T7*F)	Start-up time	
Elfciency > 84% @ 115/4C, 34% @ 230/4C Line regulation < 0.5% typical (@ 85-264/VAC (put, 10% load)	Hold-up time	
Line regulation < 0.5% bytical (@ 85-264VAC. input, 100%, load)	Rise time	< 30ms @ 100% load (25°C [77°F])
Lad regulation < 1% typical (@ 85-264VAC input, 0-100% load)		
General Data Aluminium (Al1100) Case over Aluminium (Al1100) Dimensions (L X W H) 158 mm x97 mm x38 mm (622 in x 3.82 in x 1.50 in) Weight 0.45 kg (0.99 lb) MTBF > 700,000 frs. Noise Sound pressure level (SPL) < 40 dBA	Line regulation	
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Dimensions (L × W × H) 158 mm x 97 mm x 38 mm (6 22 in x 3.82 in x 1.50 in) Weight 0.45 kg (0.99 ib) With 0.45 kg (0.99 ib) Noise Sound pressure level (SPL) < 40 dBA	General Data	
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MTBF > 700,000 hrs. Noise Sound pressure level (SPL) < 40 dBA	Dimensions (L x W x H)	
Noise Sound pressure level (SPL) < 40 dBA Cooling Convection Input/Output terminal Terminal block 7 Pin rated 300V/20A Wire size / torque 0.32-21 mm? (AWG 22-14) / 1.3 Nm (11.3 in-lb) Input/Output wire AWG22-14 Shock test 30g half sine, 3 time per direction, 6 directions, per IEC60068-2-27 Vibration 10 to 150Hz, 5g, 20 min. each axis per IEC60068-2-6 Safety / Environmental EVC / Emissions EMC / Emissions FCC Title 47, Class B/EM55022:ClSPR22, Class B Immunity EN 61000-4-2,1995; EN61000-4-4,1995; EN61000-4-6,1996; EN61000-4-8 or IEC60000-4-2,1995; EN61000-4-12 or IEEC 624 / L5N61000-4-2,1995; EN61000-4-2,1995; EN61000-4-12 or IEEC 624 / L5N61000-4-2,1996; EN61000-4-2,1996; EN61000-4-2,		
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Input/Output terminal Terminal block 7 Pin rated 300V/20A Wire size / torque 0.32-2.1 mm² (AWG 22-14) / 1.3 Nm (11.3 in-lb) Input/Output wire AWG22-14 Shock test 30g half sine, 3 time per direction, 6 directions, per IEC60068-2-27 Vibration 10 to 150Hz, 5g, 20 min. each axis per IEC60068-2-26 Safety / Environmental 8 EMC / Emissions FCC Title 47, Class B/EN55022, CISPR22, Class B Immunity EN 61000-4-2,1995; EN61000-4-4,1995; IEC61000-4-5, 1995; EN61000-4-6,1996; EN61000-4-8 or IEC61000-4-12 or IEEE C62 41; EN61000-3-2,1994 Voltage dips Conform to EN61000-4-11 Galvanic isolation Input to Output : 3KVAC, Input to Ground : 0.5KVAC Approvals UR/CIR recognized to ULG050-01 and CSA C22 2.0 x0.60950-1; CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) Corperating temperature -10 °C to +70 °C * (14°F to 158°F) Operating temperature -25 °C to +85 °C (-13°F to 185°F)	Noise	Sound pressure level (SPL) < 40 dBA
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Immunity EN 61000-4-2,1995; EN61000-4-4,1995; IEC61000-4-5,1995; EN61000-4-6,1996; EN61000-4-8 or IEC61000-4-12 or IEEE C62.41; EN61000-3-2,1994 Voltage dips Conform to EN61000-4-11 Galvanic isolation Input to Output : 3KVAC, Input to Ground : 0.5KVAC UR/CUR recognized to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) RoHS Compliant Yes Operating temperature -10 °C (14°F to 158°F) Storage temperature -25 °C to 485 °C (-13°F to 185°F)		
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Galvanic isolation Input to Output : 3KVAC, Input to Ground : 1.5KVAC, Output to Ground : 0.5KVAC Approvals UR/cUR recognized to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) RoHS Compliant Yes Operating temperature -10 °C to +70 °C* (14°F to 158°F) Storage temperature -25 °C to +85 °C (-13°F to 185°F)	Immunity	EN 61000-4-2,1995; EN61000-4-3,1998; EN61000-4-4,1995; IEC61000-4-5,1995; EN61000-4-6,1996; EN61000-4-8 or IEC61000-4-12 or IEEE C62.41; EN61000-3-2,1994
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E198298 RHS Compliant Yes Operating temperature -10 °C to +70 °C * (14°F to 158°F) Storage temperature -25 °C to +85 °C (-13°F to 185°F)	Approvals	UR/cUR recognized to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive)
Operating temperature -10 °C to +70 °C* (14°F to 158°F) Storage temperature -25 °C to +85 °C (-13°F to 185°F)		
Storage temperature -25 °C to +85 °C (-13°F to 185°F)	RoHS Compliant	
	Operating temperature	
Humidity at +25 °C, no condensation < 95 % RH non-condensing	Storage temperature	
	Humidity at +25 °C, no condensation	< 95 % RH non-condensing

* Operating to 70 °C (158° F) possible with a linear derating to half power from 50 °C to 70 °C (122° F to 158° F)