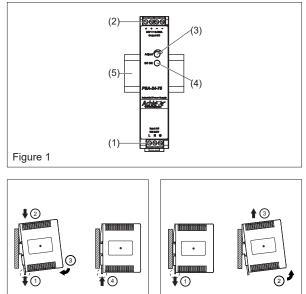


Installation Instructions for PSA-12-75 & PSA-24-75 Power Supply

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







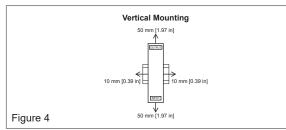
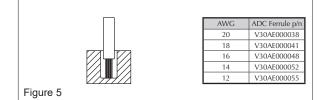
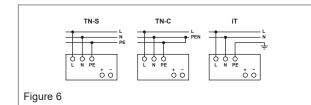
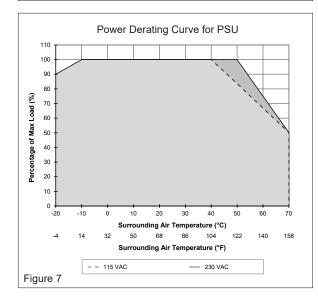


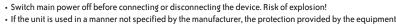
Figure 3







1. Safety instructions



- may be impaired. • To guarantee sufficient convection cooling, please keep a distance of 50 mm [1.97 in] above and below the device
- as well as a lateral distance of 10 mm [0.39 in] to other units. See Fig. 4. • The external enclosure where the unit will be installed shall meet the requirements for mechanical, electrical
- and fire enclosure.
- 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!
- **CAUTION:** Hot surface
- 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. • CAUTION: "For use in a controlled environment".

- 2. Device description (Fig. 1)
 - (1) Input terminal block connector
- (4) DC OK LED (green)
- (2) Output terminal block connector (3) DC voltage adjustment potentiometer

(5) 35mm DIN rail mounting (DIN rail sold separately)

- 3. Mounting (Fig. 2)
- The power supply unit can be mounted on 35 mm DIN rails in accordance with EN 60715. 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. Pull the unit's DIN rail latch OUT.
- 2. Tilt the unit slightly upwards, hook the top end onto the DIN rail and push downwards until stopped.
- 3. Position the bottom front end against the DIN rail.
- 4. Push the unit's latch DIN rail IN to lock

4. Dismounting (Fig. 3)

- To uninstall,
- 1. Pull the unit's DIN rail latch OUT.
- 2. Tilt the bottom part of the unit out.
- 3. Push the unit up and pull out from the DIN rail.
- 5. Connection

The terminal block connectors allow easy and fast wiring.

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

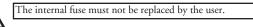
	Table 1 Refer to Fig. 1:	Standard / Solid		Torque		Stripping Length	
		(mm²)	(AWG)	(Nm)	(lb in)	(mm)	(in)
	(1)	1.0-4.0	18-12	0.56	5.0	5	0.2
	(2)	0.34-4.0	22-12	0.56	5.0	5	0.2

Please ensure that the wires are fully inserted into the connecting terminals as shown in Fig. 5. 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 IEC/EN/UL 62368-1 and IEC/EN 61010-2-201, flexible cables require ferrules. Use Copper Conductors Only. Wire are designed to sustain operating temperature of at least 105°C.

5.1. Input connection (Fig. 1, Fig. 6)

Use L, N and PE connections of input terminal connector (see Fig. 1 (1)) to establish the 100-240 VAC connection. The device has an internal fuse. The unit is tested and approved with branch circuit protective device up to 20 A.



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

Use the "+" and "-" screw connections to establish the 12 VDC and 24 VDC connection. The green LED DC OK displays correct function of the output (Fig. 1 (4)).

	PSA-12-75	PSA-24-75		
Over voltage protection	< 18 VDC	< 33.6 VDC		
Overload protection	Yes			
Short circuit protection	Yes			

5.3. Output characteristic curve

The device functions normal under operating line and load conditions. In the event of an over load ($I_0 = 105-133\%$) the output voltage will start to droop and bounce until over load has been removed.

5.4. Thermal behavior (Fig. 7)

If the output capacity is beyond what is recommended in Fig. 7. the device will run into 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.

FOR TECHNICAL ASSISTANCE CALL 770-844-4200

Technical Data For PSA-12-75 & PSA-24-75

Specifications	PSA-12-75	PSA-24-75			
Input (AC)					
Nominal input voltage / frequency		с. / 50-60 Hz			
	100-240 VAC / 50-60 Hz				
Voltage range Frequency	85-264 VAC				
	47-63 Hz				
Nominal current	1.4 A typ. @ 115 VAC, 0.9 A typ. @ 230 VAC				
Inrush current limitation (+25°C, cold start)	50 A typ. @ 230 VAC				
Mains buffering at nominal load (typ.)	16 ms typ. @ 115 VAC (100% load)				
	60 ms typ. @ 230 VAC (100% load) 1200 ms typ. @ 115 VAC (100% load)				
Turn-on time					
Internal fuse	1000 ms typ. @ 230 VAC (100% load) F 5 A H				
Leakage current	-	2 240 VAC			
	< THA @	9 240 VAC			
Output (DC)					
Nominal output voltage U _N	12 VDC ± 2%	24 VDC ± 2%			
Adjustment range of the voltage	10.8-13.2 VDC	21.6-26 VDC			
Nominal current	6.25 A	3.125 A			
Derating:					
Input voltage	< 100 VAC de-rate power by 1.33% / VAC				
Temperature	Vertical mounting: -10°C to -20°C [+14°F to -4°F] derate power by 1% / °C				
	> 40°C [104°F] derate power by 1.67% / °C @ 115 VAC				
N 1 11 11 1		er by 2.5% / °C @ 230 VAC			
Startup with capacitive loads		μF typ.			
Efficiency at 100% load	87.5% typ. @ 230 VAC	89% typ. @ 230 VAC			
PARD (20MHz) at 100% load					
General Data	< 300 mvpp @ ≤ -10°0 *	to -30°C [+14°F to -22°F]			
Type of housing	Pie	istic			
Signals	Plastic Green LED DC OK				
	Green LED DC 0K > 700,000 hrs. as per Telcordia SR-332				
MTBF	(I/P: 100 VAC; O/P: 100% load; Ta: 25°C)				
Dimensions (L x W x H)	(//*: 100 VAC; 0/*: 100% load; 12:25°C) 123.6 x 27 x 102 mm [4.87 x 1.06 x 4.02 in]				
Weight	0.22 kg [0.49 lb]				
Connection method	Screw connection				
Nire size / torque / stripping length	Sciew connection See Table 1				
	Refer to Fig. 7				
Operating temperature (surrounding air temperature)		'F to +158°F] (-30°C [-22°F] Cold Start)			
Storage temperature		[-40°F to 185°F]			
Humidity at +25°C, no condensation	5 to 95% RH				
Vibration (operating)	IEC 60068-2-6, Sine Wave: 10Hz to 500Hz @ 19.6m/s ² (2G peak); 10 min per cycle, 60 min for X direction				
Shock (non-operating)	IEC 60068-2-27, Half Sine Wave: 50G for duration of 11ms; 3 times per direction, 9 times in total				
Pollution degree	2				
Altitude (operating)	0 to 5,000 Meter				
Certification and Standards					
		SA C22.2 No. 62368-1 (File no. E508040)			
Electrical safety (of information technology equipment)	CB scheme to IEC 62368-1, IEC 61010-1, IEC 61010-2-201				
Electrical Equipment for Measurement, Control and Laboratory Use		L 61010-2-201 (File no. E197592)			
		N 55035			
Immunity		3, 4, 5, 6, 8, 11)			
		/BS EN 61000-6-1			
Emission)-3-2 Class A, EN/BS EN 61000-3-3 /BS EN 61000-6-3			
CE					
	E508040	Ind. Cont. Eq.			
RoHS Compliant	Υ	es			
Safety and Protection					
Transient surge voltage protection	VARISTOR				
Surge voltage protection against internal surge voltages	Yes				
Isolation voltage:					
Input / Output	3.0	kVAC			
Input / PE		kVAC			
Output / PE	0.5 kVAC				
Safety class	Class L with PE connection				

Class I with PE connection

Safety class