

AC-DC Power Supply




Features

- *UL 508 certified
- *Potentiometer for volt adjustment
- *AC/DC Power module
- *Power Rdy output contact on 24 volt models
- *Internal input filter
- *Automatic short circuit protection
- *Automatic overload protection
- *Small footprint
- *High efficiency - up to 86%
- *Din rail mounting clip included



Old Model No.	New Model No.	Input Voltage	Output Wattage	Output Voltage	Output Current	Eff. (Typ.)	Eff. (Min.)
Single Output Models							
PSD120-12SPA	DRA120-12SPA	115~230 VAC	120 Watts	12 VDC	10.00 Amps	84%	82%
PSD120-24SPA	DRA120-24SPA	115~230 VAC	120 Watts	24 VDC	5.00 Amps	86%	84%

Specifications

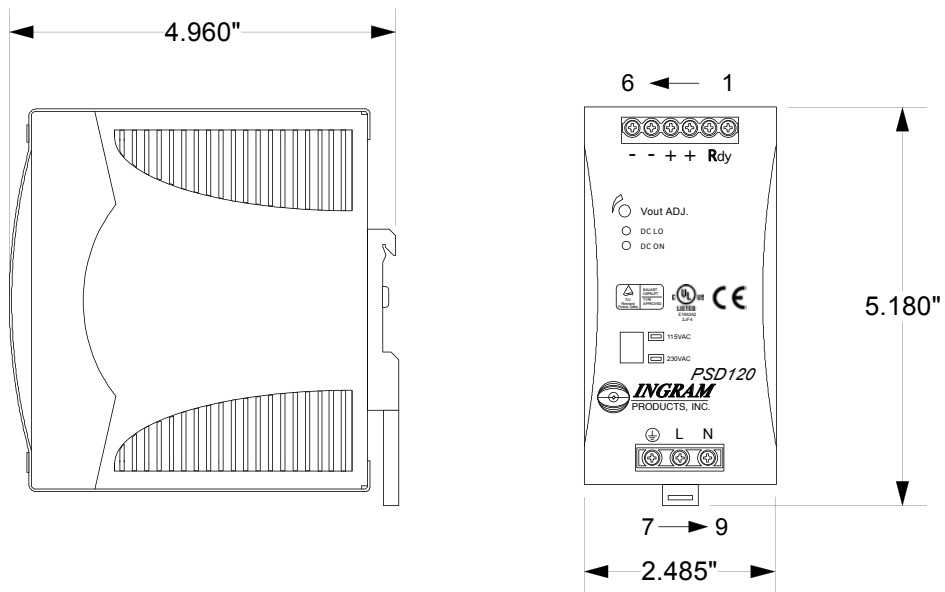
- ***Switching frequency:** $\geq 80\text{kHz}$
- ***Isolation voltage:** 3,000VAC
- ***Isolation resistance:** 100M Ω (min.)
- ***Operating ambient temperature:** -10° to $+50^\circ\text{C}$
- ***Storage temperature:** -25° to $+80^\circ\text{C}$
- ***Max. case temperature:** 65°C
- ***Relative humidity:** 20% to 90% RH
- ***Cooling:** free air convection
- ***Transient recovery time:** 300 μ seconds, 50% load step change
- ***Temperature coefficient:** $\pm 0.02\%$ / $^\circ\text{C}$
- ***Dimension:** 4.9 x 2.5 x 5 in (125 x 63.5 x 126mm)
- ***Approvals:**  : UL508 Certified UL 1950
UL File No. E196362
CE: EN50081-1
EN50082-2
EN61000-4-X where x may be 3,4,5,6,8

Input

- ***Input voltage range / frequency:** 115 ~ 230VAC / 47 ~ 63Hz
- ***Input voltage:** switch selectable
115VAC: 93VAC min. 132VAC max
230VAC: 186VAC min. 264VAC max
- ***Inrush current:** <24 A @ 115VAC
<48 A @ 230VAC
- Input fuse:** T4A / 250VAC

Output

- ***Output voltage accuracy:** $\pm 1\%$ @ V_{o_nom}
- ***Output overload:** 105~125%
- ***Line regulation:** $\pm 0.5\%$ @ V_{o_nom}
- ***Load regulation:** $\pm 1\%$ @ V_{o_nom}
- ***Ripple & noise:** 50mV (max.) @ full load
- ***Efficiency:** up to 86%, see model list
- ***Case material:** metal
- ***DC on indicator:** green LED
- ***DC low indicator:** red LED



PIN ASSIGNMENT

PIN NO.	Designation	Description	
1	OUT	RDY	
2		Do not connect except 24V model	
3		+	
4		+	
5		-	
6		-	
7	IN	\oplus	
8		L	
9		N	
	OTHER	DC ON	Operation indicator LED
		DC LO	DC LOW voltage indicator LED
		Vout Adj.	12SPA 11.4 - 14.5 VDC 24SPA 22.5 - 30VDC
		115/230	Input voltage selection switch

CONSTRUCTION

Enclosed metal housing with fine ventilation grid. Easy snap-on mounting onto the 35mm DIN-Rail. Unit sits safely and firmly on the rail; no tools required even to remove.

INSTALLATION

Ventilation / Cooling: Normal convection above/below 25mm free space for cooling recommended.

Connector size range: solid : 10-24AWG

DERATING

