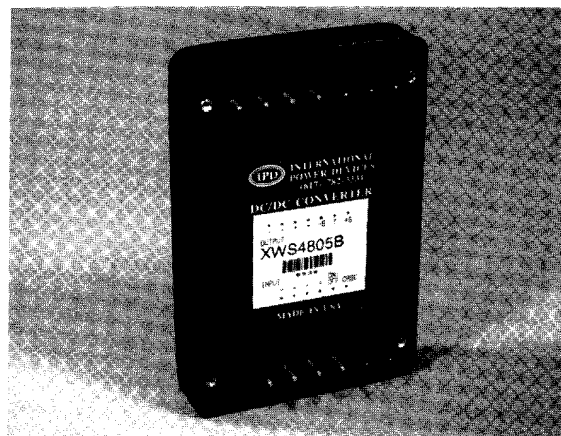


XW300S4805

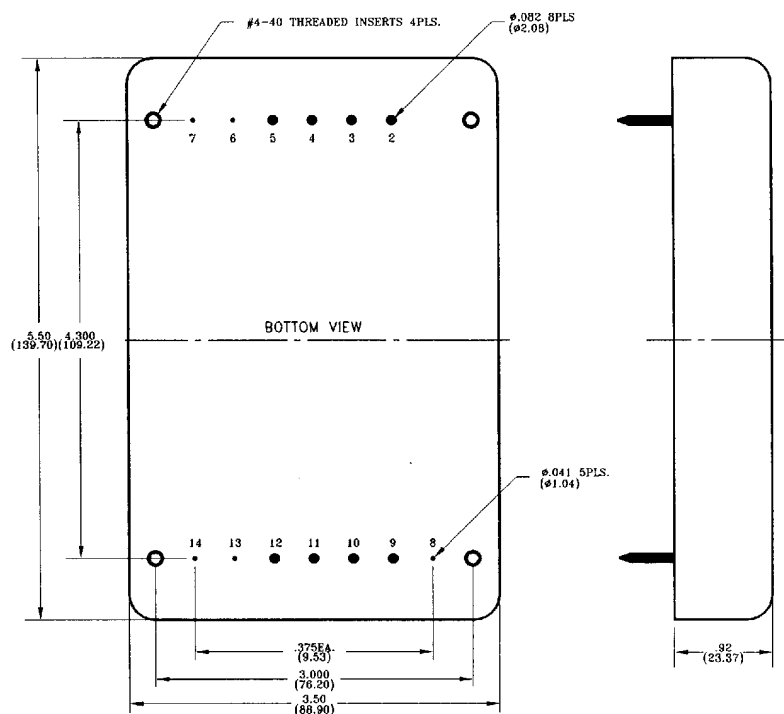
- Fixed Output Voltages from 5V to 15V
- 5.5 x 3.5 x 0.92
- Designed to Meet Safety Agency Requirements
- Fixed Frequency
- Current Mode Control
- Remote ON/OFF
- 90% to 110% Trim Range
- Overload Protection
- Low Output Noise



IPD's XWS 300 Watt is an isolated DC to DC Converter intended to generate high power from 300 W to 400 W. Advanced surface mount technology results in a high quality solution at an economical price. The XWS 300W will produce 60 Amperes of output current at 5.0V output voltages.

Model	Nominal Input Voltage	Input Voltage Range	Output Voltage	Rated Output Current	Input Current Typ.	Input Current Max. (low line, max load)	Efficiency Min.	Efficiency Typ.
	VDC	VDC	VDC	A	A	A	A	A
XWS300S4805	48	36-60	5.0V	60	7.5	9.0	83	83.3

Pin	Function
1	No Pin
2	-Vin
3	-Vin
4	+VIN
5	+VIN
6	S/D
7	Case
8	Trim
9	-Vout
10	-Vout
11	+VOUT
12	+VOUT
13	-Sense
14	+Sense



Operating Electrical Characteristics:

Parameter	Min.	Typ.	Max.	Units	Conditions
DC Input Specifications					
Input Voltage Range	36	48	60	Vdc	Vdc
Internal Filter					PI Type
Reverse Polarity Protection					No
DC Output Specifications					
+5.0V Output					
Output Voltage	4.95	5.0	5.05	Vdc	
Line Regulation			±1.0	%	
Load Regulation			±1.0	%	
Output Noise			75	mV	Notel
Temperature Coefficient			±0.02	%/°C	
Transient Response		500		µs	50% L to FL
Output Current	0.0	60.0		Amps	
Current Limit Inception	60.1			Amps	
Short Circuit Protection					No
Remote ON/OFF:					
On Voltage	3.5			Vdc	
Off Voltage	0.0		1.8	Vdc	
Thermal:					
Efficiency	75			%	@10 to 20% of FL
	84			%	@20 to 80% of FL
	83			%	@80 to 100% of FL
Operating Temperature	-25		85	C°	Case
Storage	-55		105	C°	Case
Environmental:					
Isolation Voltage	500			Vdc	Input/Output
Isolation Resistance	10 ⁹			Ω	Input/Output
Operating Humidity	5		85	%	Non-Condensing
Storage Humid	5		95	%	Non-Condensing
Operating Altitude			3,000	M	
Storage Altitude			12,000	M	