

3 Watt 1300 Series DC-DC Regulated Converters



Specifications

Input:

Voltage (see chart for selection).
Reverse polarity protected to 100VDC
(except on 5V and 6V input models).
Reflected ripple voltage 80mV (Peak to Peak) at 15KHz $\pm 20\%$ with a source impedance of 0.1 ohms.
Current: varies with input voltage.

Output:

Voltage and Current (see chart for selection)
Voltage Set Point: Factory set within 0.5% of selected output.

Regulation:

Line (Low to High): 0.1% max.
Load (NL-FL): 0.2% max.
Temperature: 0.007%/°C typ.
0.015%/°C max.

Ripple:

V (Peak to Peak) less than 1.0% of rated output voltage.
Frequency: 15KHz $\pm 20\%$

Polarity:

All outputs may be used as either positive or negative supplies.

Protection:

Overload and short circuit by current limiting.

Isolation:

Input to output 500VDC
Input to heatsink 500VDC
Output to heatsink 500VDC
Output to output 100VDC

Efficiency:

40% typical at full load under nominal conditions.

(V_{in} = Nom. V_{out} = Nom., and T_a = 25°C).

Environmental

Operating temp.:

-20°C to +100°C baseplate.

Storage temp.: -55°C to +105°C

Case rise: 35°C at full load in free air.

Mechanical:

Terminals: P.C. type
Case: glass-filled diallyl phthalate with aluminum heat plate.
Encapsulation: Epoxy
Weight: 6 oz. typ.

EMI:

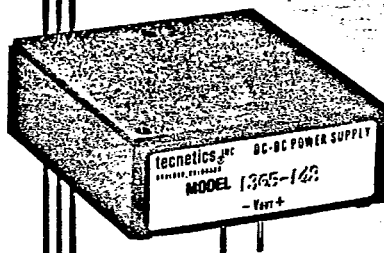
Input filter reduces reflected powerline ripple.

MTBF:

Value dependent upon environment and component certification.

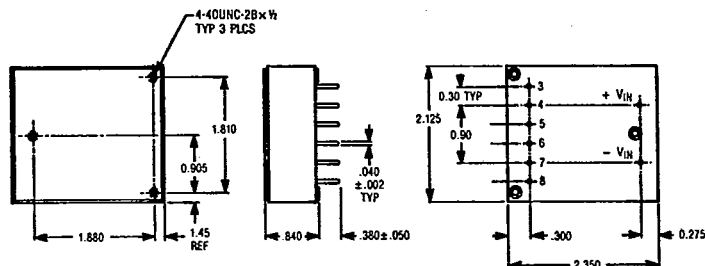
Part Number:

13 XX X XX
Series Vout No Out Vin



Features

- Low output impedance (both static and dynamic)
- Output protection by current limiting
- Input filters reduce EMI
- Heat generating components heatsunk to black, anodized baseplate
- PC or through-the-case mounting
- Ideal for commercial/industrial uses



NOTE:
UNLESS OTHERWISE SPECIFIED ALL
TOLERANCES ARE ± 0.020 .

Pin	Single Output	Dual Output	Triple Output
3	—	—	+V1
4	—	+V1	-V1
5	+V1	-V1	+V2
6	-V1	+V2	-V2
7	—	-V2	+V3
8	—	—	-V3

Model	Output Volts (VDC) Nom.		Output Current (mA) Nom.		Input Voltage (VDC)					
					5 $\pm$.5	6 $\pm$ 1	12 $\pm$ 2	24 $\pm$ 4	28 $\pm$ 4	48 $\pm$ 6
1303	3.6		840		-105	-106	-112	-124	-128	-148
1305	5		600							
1306	5		500							
1307	7		430							
1308	8		375							
1309	9		334							
1310	10		300							
1312	12		250							
1315	15		200							
1318	18		167							
1320	20		150							
1324	24		125		-105	-106	-112	-124	-128	-148
	V_1	V_2	I_1	I_2						
1310	10	10	150	150	-205	-206	-212	-224	-228	-248
1312	12	12	125	125						
1315	15	15	100	100						
1318	18	18	84	84						
1320	20	20	75	75						
1324	24	24	63	63	-205	-206	-212	-224	-228	-248
	V_1	V_2	I_1	I_2						
1315	5	15	400	34	-305	-306	-312	-324	-328	-348
1312	5	12	436	34	-305	-306	-312	-324	-328	-348