

3 Watt 1300 Series DC-DC Regulated Converters



COMPUTER PRODS/ TECNETICS 99 DE 2313291 0000466 0

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 ±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 ±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:

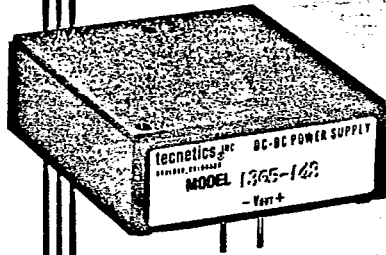
Input filter reduces reflected powerline ripple.

MTBF:

Value dependent upon environment and component certification.

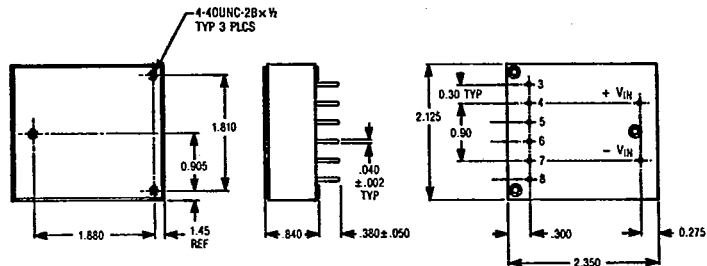
Part Number:

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)		Output Current (mA)		Input Voltage (VDC)							
	Nom.	3.6	Nom.	840	5 ± .5	6 ± 1	12 ± 2	24 ± 4	28 ± 4	48 ± 6		
1303	3.6	3.6	840	840	-105	-106	-112	-124	-128	-148		
1305	5	5	600	600	—	—	—	—	—	—		
1306	5	5	500	500	—	—	—	—	—	—		
1307	7	7	430	430	—	—	—	—	—	—		
1308	8	8	375	375	—	—	—	—	—	—		
1309	9	9	334	334	—	—	—	—	—	—		
1310	10	10	300	300	—	—	—	—	—	—		
1312	12	12	250	250	—	—	—	—	—	—		
1315	15	15	200	200	—	—	—	—	—	—		
1318	18	18	167	167	—	—	—	—	—	—		
1320	20	20	150	150	—	—	—	—	—	—		
1324	24	24	125	125	-105	-106	-112	-124	-128	-148		
1310	V_1	V_2	I_1	I_2	-205	-206	-212	-224	-228	-248		
1312	10	10	150	150	—	—	—	—	—	—		
1315	12	12	125	125	—	—	—	—	—	—		
1318	15	15	100	100	—	—	—	—	—	—		
1320	18	18	84	84	—	—	—	—	—	—		
1324	20	20	75	75	—	—	—	—	—	—		
1324	24	24	63	63	-205	-206	-212	-224	-228	-248		
1315	V_1	V_2	V_3	I_1	I_2	I_3	-305	-306	-312	-324	-328	-348
1312	5	15	15	400	34	34	-305	-306	-312	-324	-328	-348