10 Watt 1000 Series
DC-DC Regulated Converters

Specifications

Input:

Voltage (see chart for selection).
Reverse polarity protected to 100VDC (except on 5V and 6V input models).

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): 0.3% max.
Temperature: 0.007%/°C typ.
0.015%/°C max.

Ripple:

V (Peak to Peak) less than 1.0% of rated output voltage.
Frequency: 40KHz ±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:

50% typical at full load under nominal conditions.

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: 12 oz. typ.

EMI:

Input filter reduces reflected powerline ripple.

MTBF:

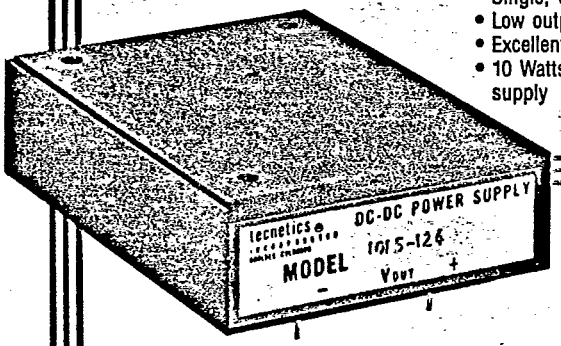
Value dependent upon environment and component certification.

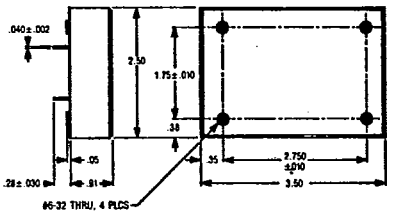
Part Number:

10 XX - X XX
Series Vout No Out Vin

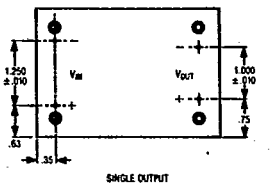
Features

- Single, dual or triple outputs
- Low output impedance (both static and dynamic)
- Excellent line, load and temperature regulation
- 10 Watts of power in the same small package as our 6 Watt supply

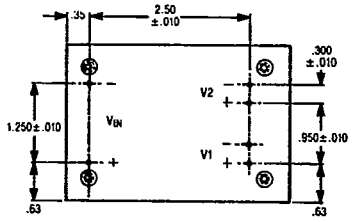




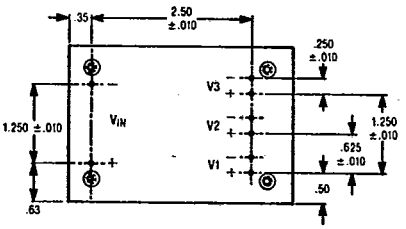
HEATSINK SIDE VIEW



SINGLE OUTPUT



DUAL OUTPUT



TRIPLE OUTPUT

NOTE:
UNLESS OTHERWISE NOTED,
ALL TOLERANCES ARE ±0.020.

Single Output

Model	Output Volts (VDC) Nom.	Output Current (mA) Nom.	Input Voltage (VDC) 5 ± .5	6 ± 1	12 ± 2	24 ± 4	28 ± 4	48 ± 6
1005	5	2000	−105	−106	−112	−124	−128	−148
1006	6	1666						
1007	7	1428						
1008	8	1250						
1009	9	1111						
1010	10	1000						
1012	12	833						
1015	15	666						
1018	18	555						
1020	20	500						
1024	24	417	−105	−106	−112	−124	−128	−148

Dual Output

Model	Output Volts (VDC) Nom. V_1	V_2	Output Current (mA) Nom. I_1	I_2	Input Voltage (VDC) 5 ± .5	6 ± 1	12 ± 2	24 ± 4	28 ± 4	48 ± 6
1010	10	10	500	500	−205	−206	−212	−224	−228	−248
1012	12	12	417	417						
1015	15	15	333	333						
1018	18	18	277	277						
1020	20	20	250	250						
1024	24	24	208	208	−205	−206	−212	−224	−228	−248

Triple Output

Model	Output Volts (VDC) Nom. V_1	V_2	V_3	Output Current (mA) Nom. I_1	I_2	I_3	Input Voltage (VDC) 5 ± .5	6 ± 1	12 ± 2	24 ± 4	28 ± 4	48 ± 6
1015	5	15	15	1000	166	166	−305	−306	−312	−324	−328	−348
1012	5	12	12	1000	208	208	−305	−306	−312	−324	−328	−348

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