

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 $\pm 20\%$

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:

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:

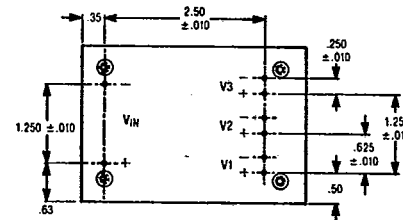
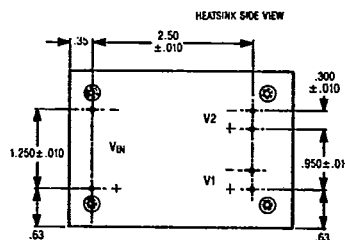
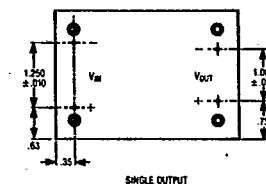
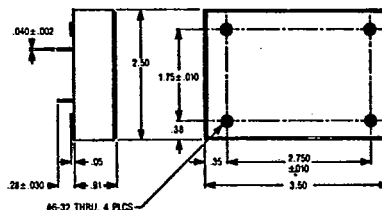
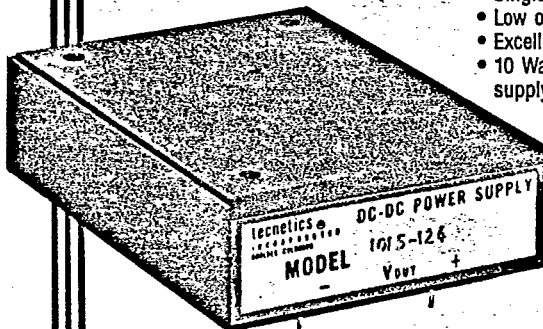
Value dependent upon environment and
component certification.

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



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 $\pm$.5	6 $\pm$ 1	12 $\pm$ 2	24 $\pm$ 4	28 $\pm$ 4	48 $\pm$ 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.		Output Current (mA) Nom.		Input Voltage (VDC)					
	V ₁	V ₂	I ₁	I ₂	5 $\pm$.5	6 $\pm$ 1	12 $\pm$ 2	24 $\pm$ 4	28 $\pm$ 4	48 $\pm$ 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.			Output Current (mA) Nom.			Input Voltage (VDC)					
	V ₁	V ₂	V ₃	I ₁	I ₂	I ₃	5 $\pm$.5	6 $\pm$ 1	12 $\pm$ 2	24 $\pm$ 4	28 $\pm$ 4	48 $\pm$ 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