

8 ~ 10 Watts DIP Package Wide Input Range DC - DC Converter

FEATURES

- ◆ 9-18V, 18-36V, 36-72V, 9-27V, 18-54V, 9-36V, 18-72V Input Range
- ◆ UL 94V-0 Package Material
- ◆ Custom Solutions Available
- ◆ High Efficiency
- ◆ Industrial Standard Package
- ◆ 100% Burn in

SPECIFICATIONS

Input Voltage Range..... 2:1 3:1 4:1 Input Range
 Input Filter.....Pi Network
 Voltage Accuracy..... $\pm 2\%$ Max.
 Line Regulation (HL-LL) / Load Regulation (FL-10%FL)..... $\pm 0.5\%$ Max.
 Ripple & Noise (20MHz BW).....100mVp-p Max.
 Switching Frequency.....200KHz(Min.)
 Min. Minimum Load.....10% of Full Load
 Efficiency.....70% Min.
 Short Circuit Protection.....Continuous
 Short Circuit Restart.....Automatic
 Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
 Isolation Voltage.....1500VDC or 3000VDC
 Isolation Resistance..... 10^9 ohms Min.
 Operating Temperature.....-25 To +71 $^{\circ}\text{C}$
 Storage Temperature-55 $^{\circ}\text{C}$ To +125 $^{\circ}\text{C}$
 CoolingFree-Air Convection
 CaseSix-Side Shielded Case
 Remote control On: 2.5V to 5.5VDC or open circuit ; Off: 0 to 0.8VDC

All Specifications are Typical at Nominal Line, full Load and 25 $^{\circ}\text{C}$.
 Unless Otherwise Noted.



Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. % (Min.)
D10-x0 (A3) ²	See Note ¹	3.3	2400	74
D10-x1 (A3)	See Note	5	2000	77
D10-x1B (A3)	See Note	9	1111	78
D10-x2 (A3)	See Note	12	830	79
D10-x3 (A3)	See Note	15	670	80
D10-x9 (A3)	See Note	24	416	79
D10-x4 (A3)	See Note	± 5	± 1000	77
D10-x4G (A3)	See Note	± 9	± 556	78
D10-x5 (A3)	See Note	± 12	± 416	80
D10-x6 (A3)	See Note	± 15	± 333	81
D10-x6A (A3)	See Note	± 24	± 208	79

Note:

1. Input Voltage

x=1, input 12VDC, range: 9-18VDC

x=2, input 24VDC, range: 18-36VDC

x=3, input 48VDC, range: 36-72VDC

x=4, input 12VDC, range: 9-36VDC ($\pm 24\text{V}$ is not available)

x=5, input 24VDC, range: 18-72VDC ($\pm 24\text{V}$ is not available)

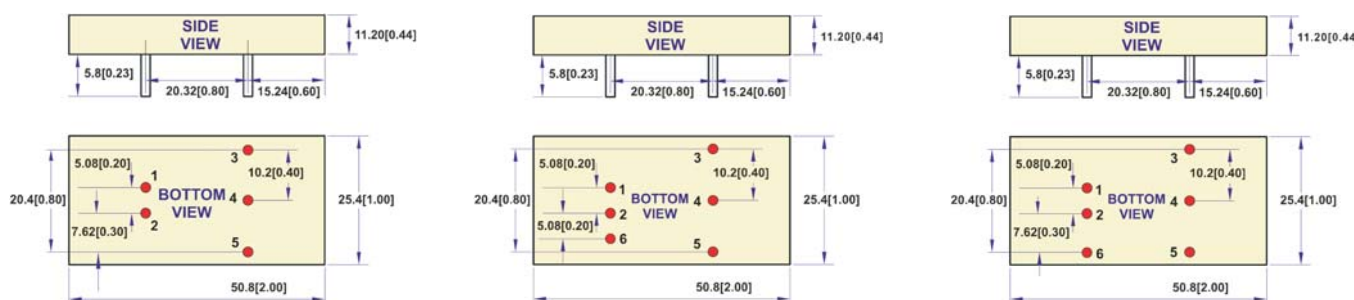
x=4A, input 12VDC, range: 9-27VDC ($\pm 24\text{V}$ is not available)

x=5A, input 24VDC, range: 18-54VDC ($\pm 24\text{V}$ is not available)

2. Suffix "A3" on model no. for 3KV isolation.

3. Suffix "A or A1" on model no. for remote control function

MECHANICAL DRAWING



Standard Package		
Pin#	Single	Dual
1	+Vi	+Vi
2	-Vi	-Vi
3	+Vo	+Vo
4	N.P	Com.
5	-Vo	-Vo

Package A		
Pin#	Single	Dual
1	+Vi	+Vi
2	-Vi	-Vi
3	+Vo	+Vo
4	N.P	Com.
5	-Vo	-Vo
6	Remote ON/OFF	

Package A1		
Pin#	Single	Dual
1	+Vi	+Vi
2	-Vi	-Vi
3	+Vo	+Vo
4	N.P	Com.
5	-Vo	-Vo
6	Remote ON/OFF	

Note :

1. Pin size is Tolerance $1.00 \pm 0.10\text{mm}$ 2. All dimension are in millimeter [inches] 3. Tolerance .X or .XX = $\pm 0.80\text{mm}$