

10 & 15 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)..... $\pm 0.5\%$ Max.
 Load Regulation.....(FL-10%FL)..... $\pm 0.5\%$ Max.
 Ripple & Noise (20MHz BW).....100mVp-p Max.
 Switching Frequency.....D10:200KHz(Min.); D(A)15:150KHz Min.
 Minimum Load.....10% of Full Load
 Efficiency.....74% Min.
 Short Circuit Protection..... Continuous
 Short Circuit Restart..... Automatic
 Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
 Isolation Voltage.....1500VDC or 3000VDC
 Isolation Resistance.....10⁹ohms Min.
 Operating Temperature..... -25 To +71 $^{\circ}\text{C}$
 Storage Temperature -55 $^{\circ}\text{C}$ To +125 $^{\circ}\text{C}$
 Cooling.....Free-Air Convection
 Case..... Black Coated Five Side Shielded Case

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.)
10W Output				
D10-x0 (A3) ²	See Note ¹	3.3	2400	74
D10-x1 (A3)	See Note	5	2000	77
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-x5 (A3)	See Note	± 12	± 416	80
D10-x6 (A3)	See Note	± 15	± 333	81
D10-x6A (A3)	See Note	± 24	± 208	79
15W Output				
DA15-x0 (A3) ³	See Note	3.3	3600	75
D(A)15-x1 (A3)	See Note	5	3000	77
D(A)15-x2 (A3)	See Note	12	1250	80
D(A)15-x3 (A3)	See Note	15	1000	80
D(A)15-x9 (A3)	See Note	24	625	80
D(A)15-x4 (A3)	See Note	± 5	± 1500	77
D(A)15-x5 (A3)	See Note	± 12	± 625	80
D(A)15-x6 (A3)	See Note	± 15	± 500	80

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

x=5, input 24VDC, range:18-72VDC

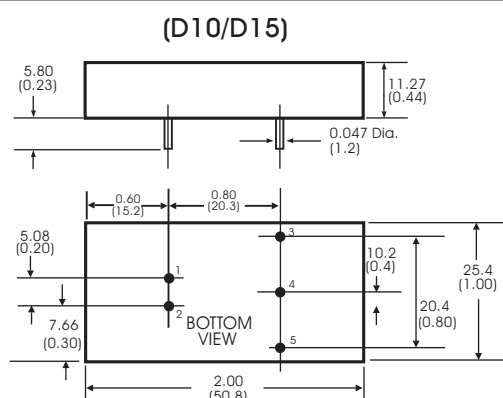
x=4A, input 12VDC, range: 9-27VDC ($\pm 24\text{V}$ is not available)

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

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

3. 3.3V is not available for D15.

MECHANICAL DRAWING (Unit: inch(mm))



Pin Connection

Single	
Pin#	Function
1	+Vi
2	-Vi
3	+Vo
4	N.P
5	-Vo

Dual	
Pin#	Function
1	+Vi
2	-Vi
3	+Vo
4	Com.
5	-Vo

