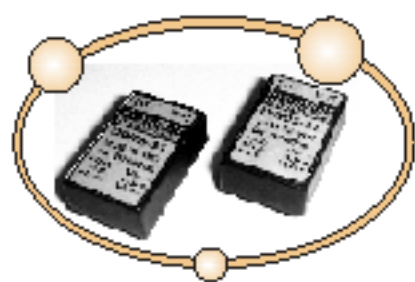




# 3Watt~5Watt DC to DC Converters



## FEATURES

3W & 5W Dip24 Package  
2:1 Input Range  
Input Pi Filter

Typical Efficiency 80%  
Regulated Output  
Metal Case

## SPECIFICATIONS

All Specifications are Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

- Input Voltage Range ..... 2:1/4:1 Range
- Nominal Line ..... 12/24/48 VDC
- Input Filter ..... PI Network
- Voltage Accuracy .....  $\pm 2\%$  max
- Temperature Coefficient .....  $\pm 0.03\%/^{\circ}\text{C}$
- R&N (20MHz BW) ..... (5V/9V) ..... 100mVp-p max  
(12V/15V) ..... 1%Vp-p max
- Line Regulation ..... (HL-LL) .....  $\pm 0.5\%$  max
- Load Regulation ..... (FL-10%FL) .....  $\pm 0.5\%$  max
- Short Circuit Protection ..... Continuous
- Min Load : For Single Output Models ..... none  
For Dual Output Models .... 10%FL ea. Output
- Isolation Voltage: ..... 1000VDC min.
- Switching Frequency ..... 50KHz min
- Case Size ..... 31.8mmx20.3mmx12.2mm
- Operating Temperature ..... -25°C To +71°C
- Storage Temperature ..... -40°C To +100°C
- Cooling ..... Free-Air Convection
- Case Material:  
Black Coated Metal With Non-Conductive Base

## MODEL LIST

### 3 Watts Models(Package A or B)

Model Number	Input Voltage	Output Voltage	Output Current	EFF. Typ.
DW03-x1(A/B)	See Note	5VDC	600mA	72
DW03-x2(A/B)	See Note	12VDC	250mA	78
DW03-x3(A/B)	See Note	15VDC	200mA	78
DW03-x4(a/B)	See Note	$\pm 5\text{VDC}$	$\pm 300\text{mA}$	74
DW03-x5(A/B)	See Note	$\pm 12\text{VDC}$	$\pm 125\text{mA}$	78
DW03-x6(A/B)	See Note	$\pm 15\text{VDC}$	$\pm 100\text{mA}$	78

### 5 Watts Models (Package A Only)

Model Number	Input Voltage	Output Voltage	Output Current	EFF. Typ.
DW05-x1	See Note	5VDC	1000mA	75
DW05-x2	See Note	12VDC	470mA	80
DW05-x3	See Note	15VDC	400mA	81
DW05-x4	See Note	$\pm 5\text{VDC}$	$\pm 500\text{mA}$	75
DW05-x5	See Note	$\pm 12\text{VDC}$	$\pm 230\text{mA}$	80
DW05-x6	See Note	$\pm 15\text{VDC}$	$\pm 190\text{mA}$	81

### Note:

x=1, input 12VDC, Range: 9-18VDC, (for all DW03-xx&DW05-xx)  
x=2, input 24VDC, Range: 18-36VDC, (for all DW03-xx&DW05-xx)  
x=3, input 48VDC, Range: 36-72VDC, (for all DW03-xx&DW05-xx)  
x=4, input 12VDC, Range: 9-36VDC, (for DW03-xx only)  
x=5, input 24VDC, Range: 18-72VDC, (for DW03-xx only)

## CASE DB

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All Dimensions In Inches (mm)

### Package A

PIN CONNECTIONS		
Pin#	Single	Dual
2&3	-Vi	-Vi
9	N.C.	Com.m.
10&15	N.P.	N.P.
11	N.C.	-Vo
14	+Vo	+Vo
16	-Vo	Com.m.
22&23	+Vi	+Vi
1,2,4,12,13	N.P.	N.P.

### Package B

PIN CONNECTIONS		
Pin#	Single	Dual
1&24	+Vi	+Vi
2&23	N.P.	-Vo
3&22	N.P.	Com.m.
10&15	-Vo	Com.m.
11&14	+Vo	+Vo
12&13	-Vi	-Vi
9&16	N.P.	N.P.

\*N.P.=No Pin  
N.C.=No Connection

