

6 Watt BTN Series

Small Size Single and Dual Output DC-DC Converters/ BTN 6Watt Series

Small Mounting Space, Low Noise, Ultra Small Size, High Efficiency, Isolated Type DC-DC Converter

Input: 5V, 12V, 24V, 48V Output: 3.3V, 5V, 12V, 15V, $\pm 12V$, $\pm 15V$

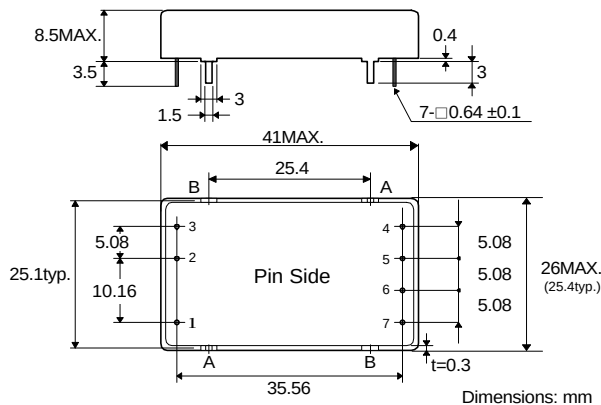


- Low Profile (8.5mm), Light, Small Size
- High Efficiency 70%-85%
- Selectable Output Voltage
- Input/ Output Floating Type
- 5-Side Metallic shield structure
- Built-in EMI Line Filter
- Temp. Coefficient $\pm 0.02\%/^{\circ}\text{C}$
- Wide Input Voltage Range
- Over-Current Protection
- I/O Isolation AC500V
- Built-in Over Input Current Protection Element
- MTTF 2,000,000Hrs
- Operating Temp. Range -20°C to $+71^{\circ}\text{C}$
(Derating required from 50°C)
- Corresponds to Analog

- Note!

This catalogue is an outline of the products.
When designing, be sure to refer to the data sheets.

Models BTN Series	Input V Vdc	Output V Vdc	Output I mA	Line Reg % (typ.)	Load Reg % (typ.)	Ripple/ Noise mVpp(typ.)	Efficiency % (typ.)
BTN05-03S120	4.5-9	3.3	0-1500	0.6	1.2	60	70
BTN05-05S100		5	0-1200	0.4	0.8	40	74
BTN05-12S50		12	0-500	0.25		30	78
		(15)	0-400	0.2	0.6		
BTN05-12W25		±12	0-250	0.33			5
		(±15)	0-200	0.26	4		
BTN12-03S150	9-18	3.3	0-1500	0.6	1.2	60	73
BTN12-05S120		5	0-1200	0.4	0.8	40	77
BTN12-12S50		12	0-500	0.25		30	85
		(15)	0-400	0.2	0.6		
BTN12-12W25		±12	0-250	0.33			5
		(±15)	0-200	0.26	4		
BTN24-03S150	18-36	3.3	0-1500	0.6	1.2	60	77
BTN24-05S120		5	0-1200	0.4	0.8	40	82
BTN24-12S50		12	0-500	0.25		30	84
		(15)	0-400	0.2	0.6		
BTN24-12W25		±12	0-250	0.33			5
		(±15)	0-200	0.26	4		
BTN48-03S150	36-72	3.3	0-1500	0.6	1.2	60	77
BTN48-05S120		5	0-1200	0.4	0.8	40	82
BTN48-12S50		12	0-500	0.25		30	85
		(15)	0-400	0.2	0.6		
BTN48-12W25		±12	0-250	0.33			5
		(±15)	0-200	0.26	4		



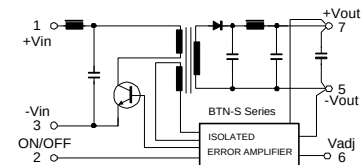
BTN-S Series

Pin	Function
1	+Vin
2	ON/OFF
3	-Vin
4	NC
5	-Vout
6	Vadj
7	+Vout
A	Case Connection
B	Stand Off

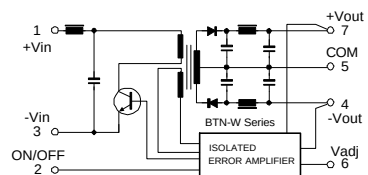
BTN-W Series

Pin	Function
1	+Vin
2	ON/OFF
3	-Vin
4	-Vout
5	Common
6	Vadj
7	+Vout
A	Case Connection
B	Stand Off

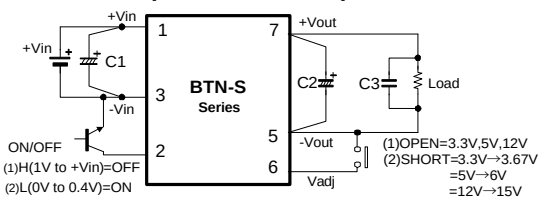
BTN-S Series



BTN-W Series



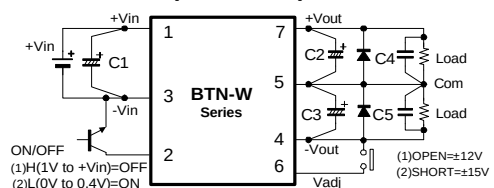
□ BTN-S Series (3.3V,5V,12V,15V)



C1=100-220 μF C2=6.8 μF C3=1 μF

- Noise can be lowered by using recommended high frequency and low impedance capacitors and by designing the pattern short and not to make a loop.
- When 6pin is open, it will be the rating output voltage. When between 6pin and 5pin is short, the output voltage will be selectable as the above.

□ BTN-W Series ($\pm 12V$, $\pm 15V$)



C1=100-200 μF C2, C3=6.8 μF C4, C5=1 μF