

**1.5 WATTS - IB SERIES**

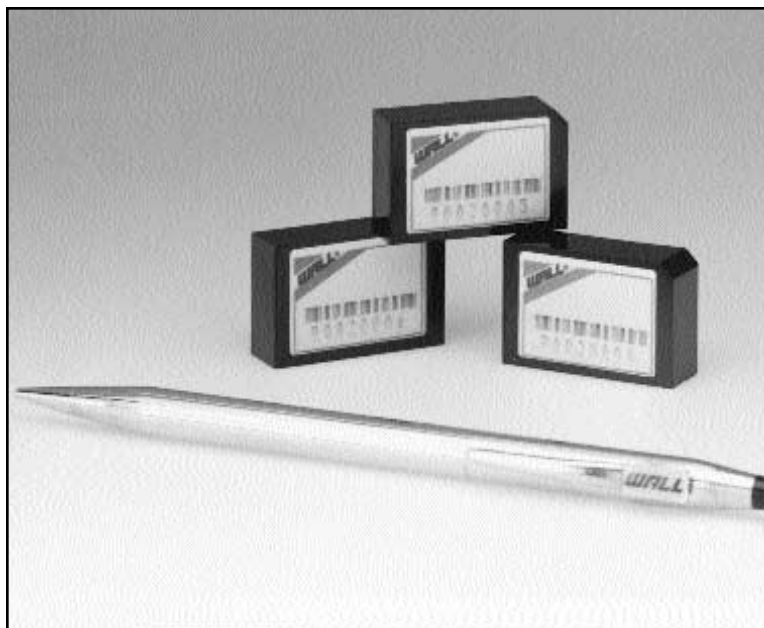
6000 VDC Input/Output Isolation

**FEATURES**

- highly isolated
- single and dual outputs
- short circuit protection
- industry standard packages
- high efficiency: 75% typical
- MTBF > 2,000,000 hours

**THE IB SERIES FROM WALL INDUSTRIES**

The IB Series features extremely high Input/Output isolation in a miniature 1.5 watt package. Designed with a low profile and 24 pin DIP compatibility, the IB fits easily into PC board assemblies. High efficiency (>75% typical) is a result of state-of-the-art circuitry with an oscillator frequency greater than 50kHz.


**SPECIFICATIONS: IB SERIES**

All specifications apply @ +25 C ambient unless otherwise noted.

**INPUT SPECIFICATIONS**

Input Voltage Range.....5,12, 15VDC  $\pm$ 10%  
 Input Filter.....N/A

**OUTPUT SPECIFICATIONS**

Output Current.....See Table  
 Voltage Tolerance..... $\pm$ 3% nom. Vin @ FL  
 Line Regulation..... $\pm$ 1.1%/ %of Vin  
 Load Regulation..... $\pm$ 10% NL-FL  
 Ripple/Noise (20MHz BW).....50mV p-p

Due to advances in technology, specifications subject to change without notice.

**GENERAL SPECIFICATIONS**

Efficiency (typical).....75% (nom. Vin, FL)  
 Isolation Voltage (input to output).....6000VDC  
 Feedthrough Capacitance.....15pF max.  
 Isolation Resistance.....100Mohms (typical)  
 Switching Frequency.....50kHz min.

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature.....-40 to +85°C(1" from case)  
 Storage Temperature.....-55 to +125°C  
 Cooling.....Free Air Convection

**PHYSICAL SPECIFICATIONS**

Dimensions: Single Output.....0.8 x 1.25 x 0.4"  
 Case Material.....Non-Metallic

| Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Model Number |
|---------------------|----------------------|---------------------|--------------|
| 5VDC                | 5                    | 300                 | IBS55        |
|                     | 12                   | 125                 | IBS512       |
|                     | 15                   | 100                 | IBS515       |
|                     | +/- 5                | 150                 | IBD55-DIL    |
|                     | +/_ 12               | 63                  | IBD512-DIL   |
|                     | +/- 15               | 50                  | IBD515-DIL   |
| 12VDC               | 5                    | 300                 | IBS25        |
|                     | 12                   | 125                 | IBS212       |
|                     | 15                   | 100                 | IBS215       |
|                     | 48                   | 50                  | IBS248**     |
|                     | +/- 5                | 150                 | IBD25-DIL    |
|                     | +/- 12               | 63                  | IBD212-DIL   |
|                     | +/- 15               | 50                  | IBD215-DIL   |
| 15VDC               | 5                    | 300                 | IBS155       |
|                     | 12                   | 125                 | IBS1512      |
|                     | 15                   | 100                 | IBS1515      |
|                     | +/- 5                | 150                 | IBD155-DIL   |
|                     | +/- 12               | 63                  | IBD1512-DIL  |
|                     | +/- 15               | 50                  | IBD1515-DIL  |

**PIN CONNECTIONS**

|        | Single | Dual   |
|--------|--------|--------|
| 1      | +Vin   | + Vin  |
| 2      | +Vin   | + Vin  |
| 3      |        |        |
| 4      |        |        |
| 5      |        |        |
| 11, 12 | +Vout  | + Vout |
| 13, 14 | -Vout  | Common |
| 15     | No Pin | - Vout |
| 23, 24 | -Vin   | - Vin  |

**Notes:**

1. All case and pin-to-case dimensions reference only unless otherwise noted.

2. Pin details: eight pins (single output)

nine pins (dual output)

0.02" diameter x 0.15" long.

\*\*1500VDC I/O Isolation, this package only.

