

**1.5 WATTS - IB SERIES**

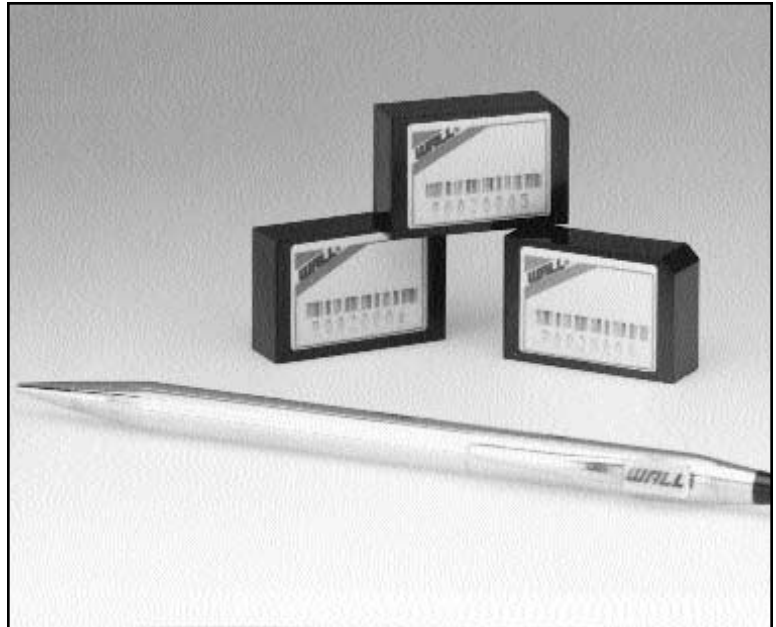
6000 VDC Input/Output Isolation

**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.  $V_{in}$  @ FL  
 Line Regulation..... $\pm$ 1.1%/ % of  $V_{in}$   
 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.  $V_{in}$ , 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

Datasheet.Directory

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
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

<b>PIN CONNECTIONS</b>		
	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.

