



# IB10D - IB36D Series 10 - 36 Watts

Interchangeable Wall Plug-In AC - DC Power Supply  
Efficiency Level V & VI, RoHS 2 Compliant

Date: 11/13/13

Rev: 101713

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The IB10D - IB36D Series is an ultra-efficient, wall plug-in style switch mode power supply with 6 Interchangeable Input Plugs, enabling the unit to be used worldwide. It offers 9 Watts - 36 Watts output with international safety approvals, and is tested to Energy Efficiency Level 5 & 6 to meet future applications.

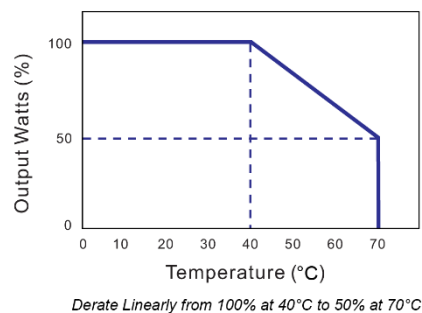


|                               |                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Input Voltage                 | 90 to 264 VAC                                                                             |
| Input Frequency               | 47 to 63 Hz                                                                               |
| Input Current (Low Line)      | 1 A Max at 100 VAC                                                                        |
| Input Current (High Line)     | 0.5 A Max at 240 VAC                                                                      |
| Safety Ground Leakage Current | 0.25 mA Max at 240 VAC, Full Load                                                         |
| Output Voltage & Current      | See Table on Page 2                                                                       |
| Ripple & Noise (P-P)          | See Table                                                                                 |
| Over-Voltage Protection       | 150% Max                                                                                  |
| Short Circuit Protection      | Auto-Recovery                                                                             |
| Temperature Coefficient       | $\pm 0.04\%$ / °C Max                                                                     |
| Transient Response            | 50% Load Change at 100 VAC Input: 4 ms Max                                                |
| Efficiency                    | Meets Energy Efficiency Level V & VI Criteria                                             |
| No Load Power Consumption     | $\leq 0.3$ Watts                                                                          |
| Line Regulation               | $\pm 1\%$ Max at Full Load                                                                |
| Load Regulation               | $\pm 5\%$ Max at 230 VAC                                                                  |
| Start-Up Time                 | 3 s Max                                                                                   |
| Hold-Up Time                  | 8.3 ms Min                                                                                |
| Inrush Current                | 30A @ 115VAC Max at 25°C Cold Start<br>60A @ 230VAC Max at 25°C Cold Start                |
| Withstanding Voltage          | 4242 VDC between primary and secondary                                                    |
| Insulation Resistance         | 50 M $\Omega$ Min                                                                         |
| Mean Time Between Failure     | Full Load at 25°C Ambient: 100,000 Hours Min                                              |
| Operating Temperature         | See Derating Curve                                                                        |
| Storage Temperature           | -20 to 85 °C                                                                              |
| Industry Compliance           | Directive 2011/65/EU (RoHS 2), Energy Efficiency Level V & VI                             |
| EMI Requirements              | Meets Conduction Limits of:<br>FCC Part 15 Class B, CISPR-22 Class B and EN 55022 Class B |
| Safety Compliance             | UL/CUL, TUV/GS, CB, CE, FCC, CCC                                                          |

## Features:

- Universal Input 100 - 240 VAC
- Available with U.S., European, British, Australian, China and South Africa/India Input Plugs
- Over-Voltage Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level: V, VI

## Derating Curve



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## Output Voltage and Current Table

| Model Number | Output Voltage Range * | Maximum Output Current † | Maximum Output Power |
|--------------|------------------------|--------------------------|----------------------|
| IB10D_05R    | 5 VDC                  | 2.00 A                   | 10 W                 |
| IB15D_05R    | 5 VDC                  | 3.00 A                   | 15 W                 |
| IB15D_10R    | 10 VDC                 | 1.50 A                   | 15 W                 |
| IB18D_06R    | 6 VDC                  | 3.00 A                   | 18 W                 |
| IB18D_09R    | 9 VDC                  | 2.00 A                   | 18 W                 |
| IB20D_ _ _ R | 5 - 48 VDC             | 4.00 - 0.41 A            | 20 W                 |
| IB24D_ _ _ R | 6 - 24 VDC             | 4.00 - 1.00 A            | 24 W                 |
| IB27D_ _ _ R | 9 - 11 VDC             | 3.00 - 2.45 A            | 27 W                 |
| IB30D_ _ _ R | 12 - 24 VDC            | 2.50 - 1.25 A            | 30 W                 |
| IB30D_ _ _ R | 36 - 48 VDC            | 0.83 - 0.63 A            | 30 W                 |
| IB36D_12R    | 12 VDC                 | 3.0 A                    | 36 W                 |
| IB36D_24R    | 24 VDC                 | 1.5 A                    | 36 W                 |

\* Output Voltages between ranges are also available.

† To find Output Current:

Output Current = Max Power ÷ Output Voltage

Example: Output Current for IB24D\_12R  
(12 VDC Output)

Output Current = 24 W ÷ 12 V

Output Current = 2 A

IB□□D□□R

→ Output Voltage: See Table (Output Voltage)

→ Input Plug: U = U.S. Plug (US)  
E = European Plug (EU)  
B = British Plug (UK)  
R = Australian Plug (AU)  
C = China Plug (CN)  
S = South Africa/India Plug (ZA)  
K = Kit with US, UK, EU,  
and AU plug.

→ Output Power: See Table (Model Number)



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10 - 36 Watts

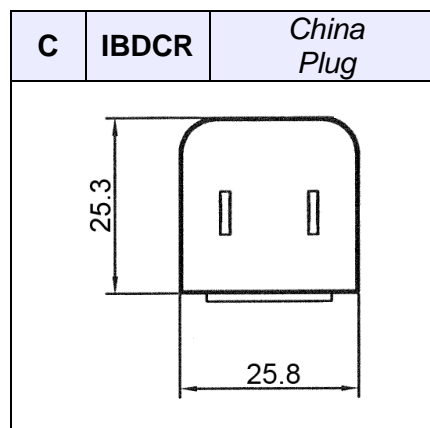
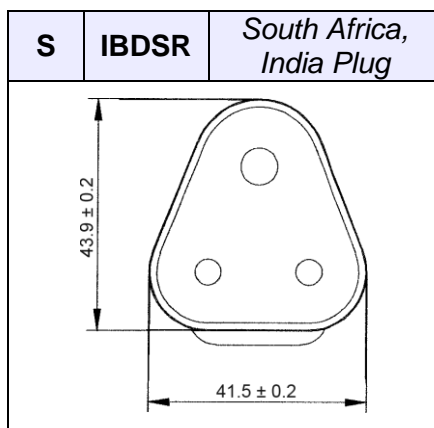
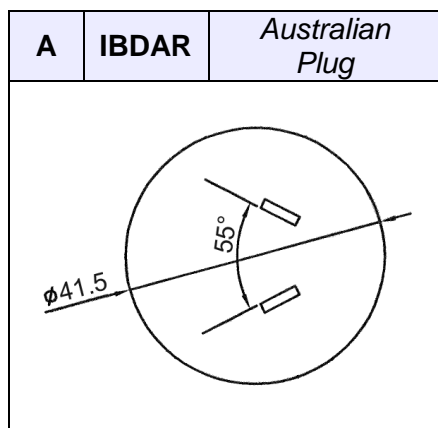
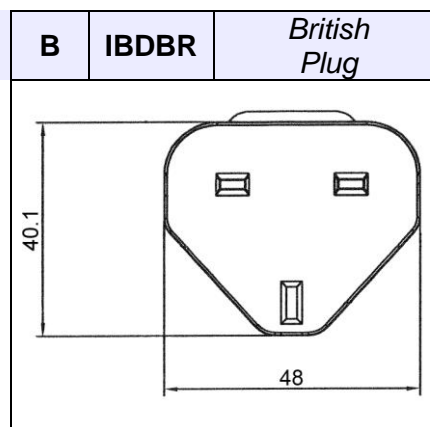
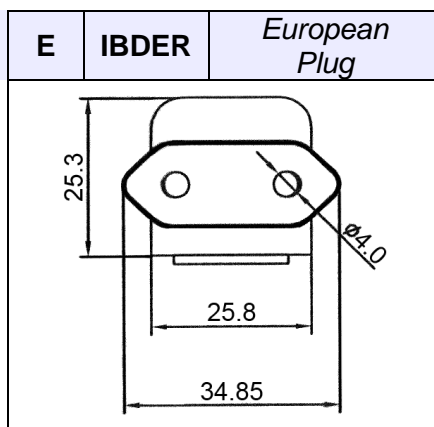
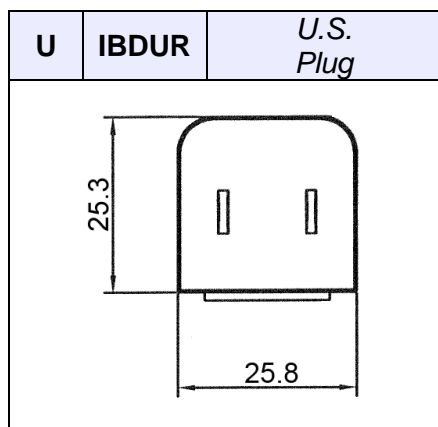
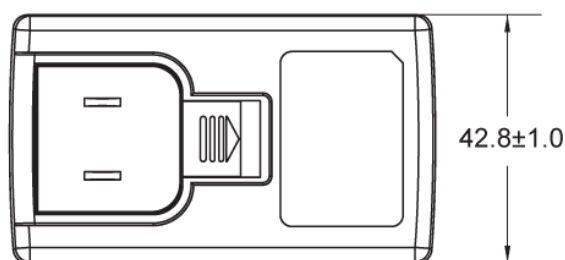
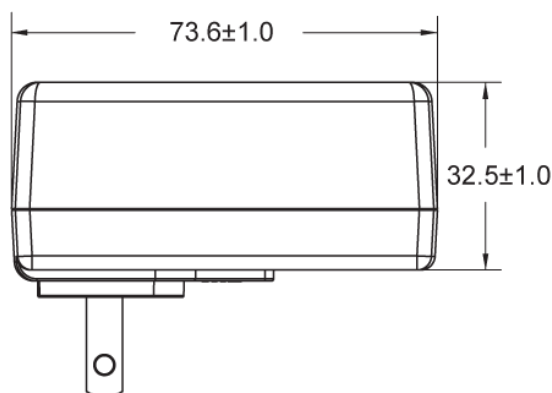
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## Mechanical Specification (mm)



Note: Input Plugs can also be purchased individually.  
Output connector to be specified.  
The cable length and wire gauge will be dependent on CEC requirements for each current level.



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