



IB41DS7R - IB50DS7R Series

41 - 50 Watt Interchangeable AC - DC Wall Plug-In
Energy Efficiency Level VI, RoHS 2 Compliant

Date: 6/10/16

Rev: 061016

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The IB41DS7R - IB50DS7R Series switch mode power supply offers 41 - 50 Watts output power, with an output voltage range of 9 Vdc – 30 Vdc. Wall Plug-In case style with interchangeable Input Plugs, enabling the unit to be used worldwide, with UL/cUL, EN and IEC 60950-1 2nd Edition safety approvals, and Energy Efficiency Level 6.

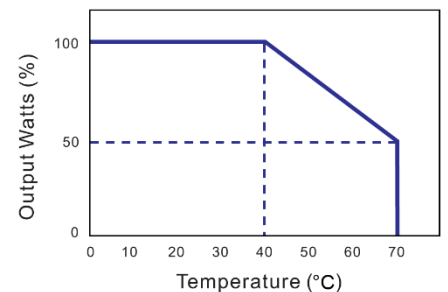


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	1.3 A Max
Inrush Current	50 - 60 A Max
Leakage Current	0.25 mA Max
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)	150 mV <i>Measured w/ 0.1 μF ceramic capacitor & 47 μF electrolytic capacitor in parallel</i>
Over-Current Protection	150 – 200%, Max
Temperature Coefficient	$\pm 0.04\%$ / °C Max
Transient Response Time	Load Change from 100% - 50%: 1 ms
Efficiency	Meets Energy Efficiency Level VI Criteria
No Load Power Consumption	Meets Energy Efficiency Level VI Criteria
Load Regulation	$\pm 5\%$ (Typ.)
Start-up Time	3 s
Withstanding Voltage	Primary to Secondary: 4,242 Vdc Primary to Case: 4,242 Vdc
Mean Time Between Failure	Full Load at 25°C Ambient: 100,000 Hours Min
Operating Temperature	See Derating Curve
Storage Temperature	-20 to 60 °C
Weight	190 g (Ref.)
Industry Compliance	Directive 2011/65/EU (RoHS 2), Energy Efficiency Level VI
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 15 Class B, CISPR-22 Class B, and EN 55022 Class B
Safety Compliance	cTUVus (UL 60950-1:2nd Edition), GS (EN 60950-1:2nd Edition) BSMI, CB, CCC, CE, FCC, RCM, LVD, PSE KC (16V – 23V), PSB (18V only)

Features:

- Universal Input 100 - 240 Vac
- Available with U.S., European, British, and Australian Input Plugs
- Over-Current Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level: VI

Derating Curve



Derate Linearly from 100% at 40°C to 50% at 70°C



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Output Voltage and Current Table

Model Number	Output Voltage Range	Output Current <i>Limited to Output Power *</i>	Maximum Output Power
IB41DS7R ___ R	9 – 30 Vdc	1.36 – 4.55 A	41.0 W
IB42DS7R ___ R	9 – 30 Vdc	1.40 – 4.66 A	42.0 W
IB43DS7R ___ R	9 – 30 Vdc	1.43 – 4.77 A	43.0 W
IB44DS7R ___ R	9 – 30 Vdc	1.46 – 4.88 A	44.0 W
IB45DS7R ___ R	9 – 30 Vdc	1.50 – 5.00 A	45.0 W
IB46DS7R ___ R	11 – 30 Vdc	1.53 – 4.18 A	46.0 W
IB47DS7R ___ R	12 – 30 Vdc	1.56 – 3.91 A	47.0 W
IB48DS7R ___ R	12 – 30 Vdc	1.60 – 4.00 A	48.0 W
IB49DS7R ___ R	12 – 30 Vdc	1.63 – 4.08 A	49.0 W
IB50DS7R ___ R	12 – 30 Vdc	1.66 – 4.16 A	50.0 W

*** To find Output Current:**

Output Current = Max Power ÷ Output Voltage

Example: Output Current for 30 Vdc Output at 50 Watts

*Output Current = 50 W ÷ 30 V
Output Current = 1.66 A*

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→ Output Voltage: See Table (Output Voltage)

→ Input Plug:

- U = U.S. Plug (US)
- E = European Plug (EU)
- B = British Plug (UK)
- A = Australian Plug (AU)
- K = Kit with US, UK, EU, and AU plug.

→ Output Power: See Table (Model Number)



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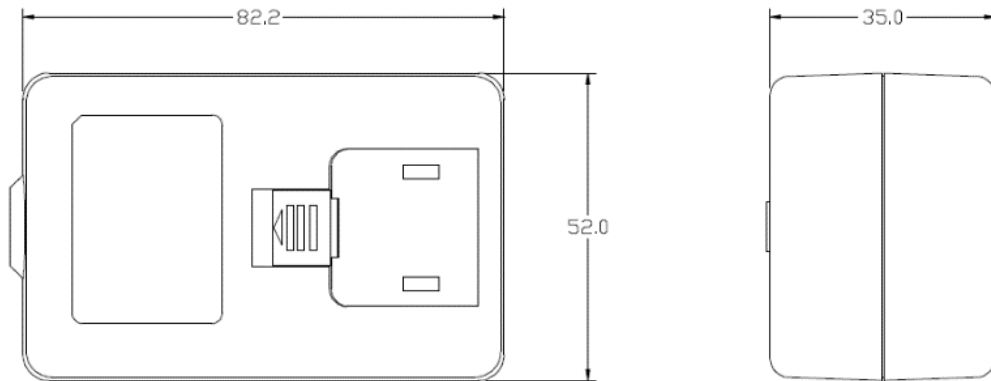
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Mechanical Specification (mm)



U	IBDSUR	U.S. Plug	E	IBDSER	European Plug
A	IBDSAR	Australian Plug	B	IBDSBR	British Plug

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