



# IB15Q – IB20Q Series

15 – 20 Watt Interchangeable Wall Plug-In  
UL/EN/IEC 62368-1 2<sup>nd</sup> Ed., DoE VI, CoC v5 Tier 2

Date: 9/27/18

Rev: 072018

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The IB15Q – IB20Q Series switch mode power supply offers 15 Watts to 20 Watts output power, with an output voltage range of 5 Vdc – 24 Vdc. Wall Plug-In case style with interchangeable Input Plugs, enabling the unit to be used worldwide, with UL/EN/IEC 62368-1 2<sup>nd</sup> Edition and 60950-1 safety approvals, and DoE Level 6 and CoC v5 Tier 2 efficiency.



Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	0.48 A Max.
Leakage Current	0.25 mA Max.
Withstanding Voltage	Primary to Secondary: 3000 Vac
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P) <sup>1</sup>	2% Max.
Over-Voltage Protection	Unit is protected from over-voltage conditions
Over-Current Protection	Unit is protected from over-current conditions
Transient Response Time	With 50% Load Change: 0.5 ms
Efficiency	Meets DoE Level VI and CoC v5 Tier 2 Criteria
No Load Power Consumption	Meets DoE Level VI and CoC v5 Tier 2 Criteria
Load Regulation	± 5% Typ.
Hold-Up Time	10 ms Min.
Withstanding Voltage	Primary to Secondary: 3000 Vac
Mean Time Between Failure	Full Load at 25°C Ambient: 300,000 Hours Min (Telcordia)
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 80°C
Weight	158 g. (Ref.)
Industry Compliance	RoHS 2, DoE VI, CoC v5 Tier 2
EMC Requirements	EN 55024, EN 61000-3-2, -3-3
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 15 Class B, CISPR-32 Class B, and EN 55032 Class B
Safety Compliance	UL/cUL (UL/CSA 62368-1:2 <sup>nd</sup> Ed., 60950-1:2 <sup>nd</sup> Ed.), TUV/GS (EN 60950-1:2 <sup>nd</sup> Ed.), CB (EN/IEC 62368-1:2 <sup>nd</sup> Ed.), CE, RCM, PSE, CCC, BSMI, KC, LPS

## Features:

- Universal Input 100 - 240 Vac
- Available with US, Europe, British, Korea, Australia, and China Input Plugs
- Over-Voltage Protection
- Over-Current Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- DoE Level VI
- CoC v5 Tier 2

### Note:

1. Ripple & Noise are measured with a 0.1 µF multilayer capacitor & 47 µF low ESR electrolytic capacitor in parallel and a 20 MHz bandwidth-limited scope.



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## Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
IB15Q_05R	5.0 Vdc	3.0 A	15.00 W
IB15Q_06R	5.9 Vdc	2.5 A	14.75 W
IB18Q_06R	5.9 Vdc	3.0 A	17.70 W
IB18Q_07R	7.0 Vdc	2.5 A	17.50 W
IB19Q_07R	7.5 Vdc	2.5 A	18.75 W
IB20Q_09R	9.0 Vdc	2.2 A	19.80 W
IB19Q_10R	10.0 Vdc	1.9 A	19.00 W
IB18Q_11R	11.0 Vdc	1.6 A	17.60 W
IB19Q_12R	12.0 Vdc	1.6 A	19.20 W
IB20Q_15R	15.0 Vdc	1.3 A	19.50 W
IB19Q_16R	16.0 Vdc	1.2 A	19.20 W
IB20Q_18R	18.0 Vdc	1.1 A	19.80 W
IB19Q_24R	24.0 Vdc	0.8 A	19.20 W

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Output Voltage: See Table (Output Voltage)

Input Plug:

- U = U.S. Plug (US)
- E = Europe Plug (EU)
- B = British Plug (UK)
- KC = Korea Plug (KC)
- A = Australia Plug (AU)
- C = China Plug
- K = Kit with US, UK, EU, and AU plug.

Output Power: See Table (Model Number)



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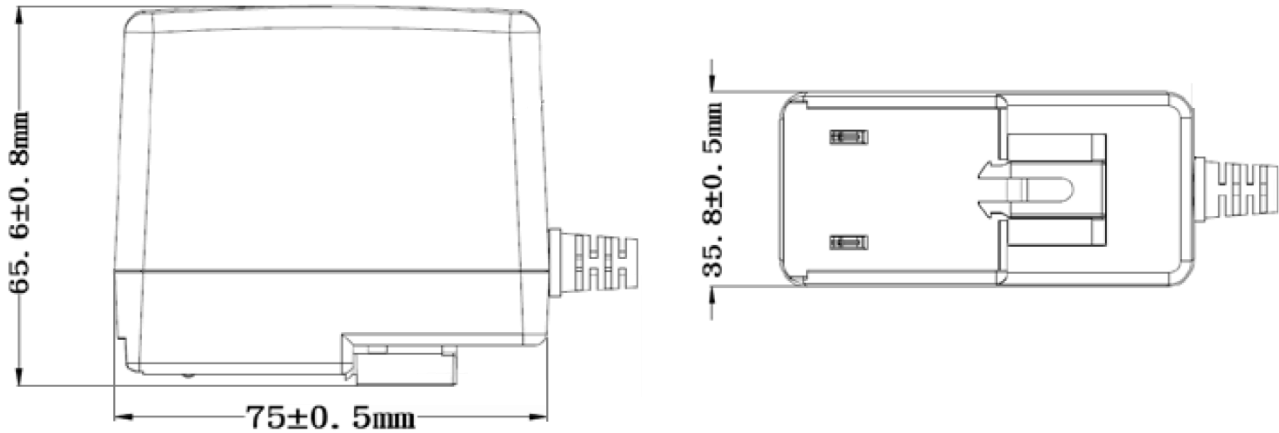
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## Mechanical Specification (mm)



<b>U</b>	<b>IBQUR</b>	<i>US Plug</i>	<b>E</b>	<b>IBQER</b>	<i>Europe Plug</i>	<b>B</b>	<b>IBQBR</b>	<i>British Plug</i>
<b>KC</b>	<b>IBQKCR</b>	<i>Korea Plug</i>	<b>A</b>	<b>IBQAR</b>	<i>Australia Plug</i>	<b>C</b>	<b>IBQCR</b>	<i>China Plug</i>

Note: Output connector to be specified by customer.  
 APX will be happy to recommend the appropriate connector for your application needs.  
 The cable length and wire gauge will be dependent on the Energy Efficiency level requirements.