

# AC-DC Power Supplies - 6W

Models: BB-SMi6-12-V-P230-C1, BB-SMi6-12-V-P230R-C1,  
BB-SMi6-12-V-P5, BB-SMi6-12-V-P6, BB-SMi6-12-V-ST, BB-SMi6-5V-P5

**B+B SMARTWORX**

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**ADVANTECH**

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BB-SMi6-12-V-P5

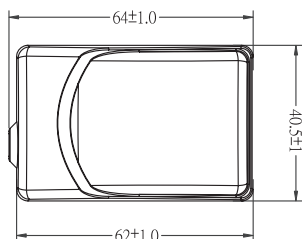
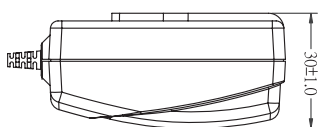
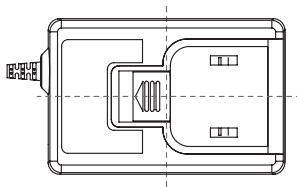
- + DOE Level VI, CEC, ErP Stage 2 Energy Efficiency
- + Universal Input Voltage Range – 90 to 264V AC
- + Up to 6 Watt Continuous Output Power
- + Single Regulated Output Range –5 to 15V AC
- + Interchangeable, International AC Input Blades (kit included)  
(North America, Europe, UK, Australia, China)
- + Over-voltage, Short circuit Protection
- + Custom Design Options Available

## OVERVIEW

The BB-SMi6-x series is a 6 W wall plug-in AC-DC power supply with interchangeable AC blades. The series is designed to meet the latest US DoE Level VI efficiency standards in addition to the proposed and more stringent EU CoC Tier 2 requirements. Designed for global use, BB-SMi6-x adapters include plug options for North America, Europe, United Kingdom, Australia and China. This high efficiency power supply utilizes the latest in green power technology.

## MECHANICAL DRAWING - POWER SUPPLY

Units = mm



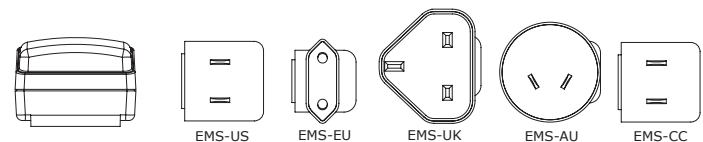
## ORDERING INFORMATION

MODEL NUMBER	OUTPUT VOLTAGE (V DC)	OUTPUT CURRENT (A, max)	OUTPUT POWER (W, max)	RIPPLE & NOISE <sup>1</sup> (mVp-p, max)	OUTPUT PLUG
BB-SMi6-12-V-P230-C1	12	0.5	6	200	Jack
BB-SMi6-12-V-P230R-C1	12	0.5	6	200	Jack, Right Angle
BB-SMi6-12-V-P5	12	0.5	6	200	Standard DC Straight Plug
BB-SMi6-12-V-P6	12	0.5	6	200	Standard DC Straight Plug
BB-SMi6-12-V-ST	12	0.5	6	200	Stripped & Tinned
BB-SMi6-5-V-P5	5	1.2	6	150	Standard DC Straight Plug

1. At full load, 100-240V AC input, 20 MHz bandwidth.  
2. ErP Tier 2 Compliant

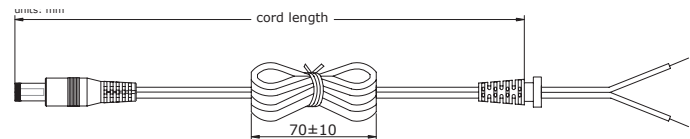
## MECHANICAL DRAWING - AC INPUT BLADE OPTIONS

Units = mm



## MECHANICAL DRAWING - DC CORD

Units = mm



Model No.	Cable	Cord Length
BB-SMi6-12-V-P230-C1	UL2468, 22 AWG	1,530 mm ± 100
BB-SMi6-12-V-P230R-C1	UL2468, 22 AWG	1,530 mm ± 100
BB-SMi6-12-V-P5	UL2468, 20 AWG	1,530 mm ± 100
BB-SMi6-12-V-P6	UL2468, 22 AWG	1,530 mm ± 100
BB-SMi6-12-V-ST	UL2468, 22 AWG	1,530 mm ± 100
BB-SMi6-5-V-P5	UL2468, 20 AWG	1,530 mm ± 100

All product specifications are subject to change without notice.  
BB-SMi6-x\_PowerSupplies\_4117ds

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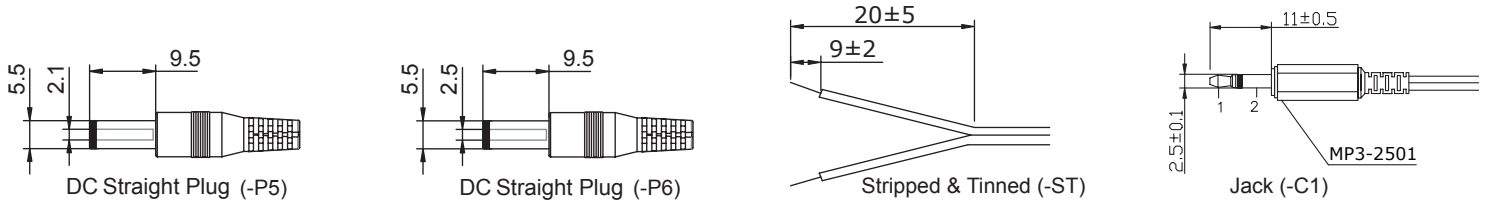
Models: BB-SMi6-12-V-P230-C1, BB-SMi6-12-V-P230R-C1,  
BB-SMi6-12-V-P5, BB-SMi6-12-V-P6, BB-SMi6-12-V-ST, BB-SMi6-5V-P5



BB-SMi6-12-V-ST

## MECHANICAL DRAWING - OUTPUT PLUGS

Units = mm



## SPECIFICATIONS

PARAMETER	CONDITIONS/DESCRIPTION	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>POWER - INPUT</b>					
Voltage	-	90	-	264	V AC
Frequency	-	47	-	63	Hz
Current	-	-	-	0.3	A
Leakage Current	-	-	-	0.25	mA
No-load Power Consumption	Level 6 ErP Tier 2	-	-	0.1 0.075	W W
<b>POWER - OUTPUT</b>					
Line Regulation	5V DC models All other models	-	+/- 3 +/- 1	-	% %
Load Regulation	At full load	-	+/- 5	-	%
<b>PROTECTIONS</b>					
Over-Voltage Protection	Output shut down, auto recovery	-	-	-	-
Short Circuit Protection	Output shut down, auto recovery	-	-	-	-
<b>ENVIRONMENTAL</b>					
Operating Temperature	-	0	-	40	°C
Storage Temperature	-	-10	-	70	°C
Operating Humidity	Non-condensing	20	-	80	%
Storage Humidity	Non-condensing	10	-	90	%
<b>MECHANICAL</b>					
Dimensions	64.0 x 40.5 x 30.0 mm	-	-	-	mm
Inlet Plug	Interchangeable blades (North America, Europe, United Kingdom, Australia, China)	-	-	-	-
Weight	All models, without blades	-	68.5	-	-
<b>SAFETY</b>					
Isolation Voltage	Input to output at 10 mA for 1 minute	-	3,000 4,242	-	V AC V DC
Isolation Resistance	Input to output at 500V DC	100	-	-	MΩ
<b>APPROVALS / CERTIFICATIONS</b>					
Safety Approvals	UL/cUL, GS, CCC, PSE	-	-	-	-
EMI/EMC	FCC Part 15B Class B, CE	-	-	-	-
RoHS	2011/65/EU	-	-	-	-