

# AC-DC Power Supplies - 6W

Models BB-SMi6-12-V-P5, BB-SMi6-12-V-ST

# 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 264 V AC
- + Up to 6 Watt Continuous Output Power
- + Single Regulated DC Output
- + Interchangeable, International AC Input Blades (kit included)  
(North America, Europe, UK, Australia, China)
- + Over-voltage, Short Circuit Protection
- + Custom Design Options Available

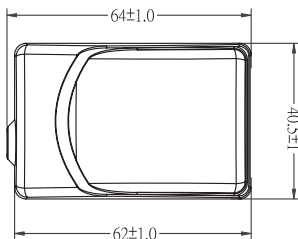
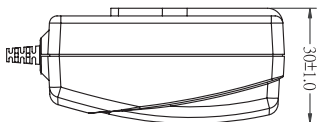
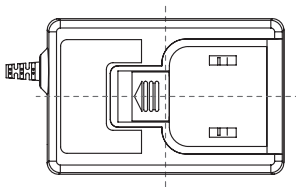
## OVERVIEW

The BB-SMi6-x series is a 6 Watt 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. This high efficiency power supply utilizes the latest in green power technology.

Designed for global use, BB-SMi6-x power adapters include plug options for North America, Europe, United Kingdom, Australia and China.

## MECHANICAL - HOUSING

Units = mm



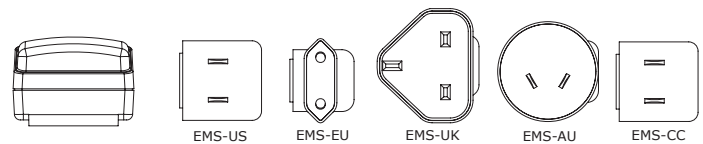
## ORDERING INFORMATION

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-P5	12	0.5	6	200	Standard DC Straight Plug
BB-SMi6-12-V-ST	12	0.5	6	200	Stripped & Tinned

1. At full load, 100-240V AC input, 20 MHz bandwidth.

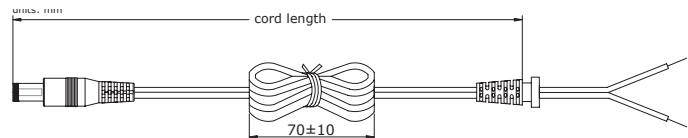
## MECHANICAL - AC INPUT BLADE OPTIONS

Units = mm



## MECHANICAL - DC CORD

Units = mm



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

All product specifications are subject to change without notice.  
BB-SMi6-12-V-xx\_PowerSupplies\_3920s

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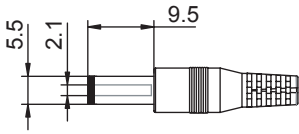
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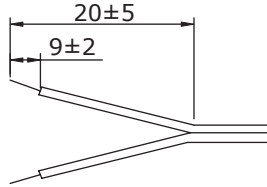
BB-SMi6-12-V-ST

## MECHANICAL - OUTPUT PLUGS

Units = mm



DC Straight Plug  
Model# BB-SMi6-12-V-P5



Stripped & Tinned  
Model# BB-SMi6-12-V-ST

## 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	-	-	+/- 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
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	-	-	-	-