

# SB 5W Series

**-20°C/+60°C Wide Operating Temperature Range AC/DC Adaptor**



▲ SB310



▲ SBY310



▲ SBE310



▲ SBK310



▲ SBA310



All safety meets 40 degree standard.  
Please contact our sales department for safety standard of each model.



Safety Certificate



Reliability Guarantee



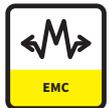
Energy Saving



ROHS 2



LPS



EMC



Miniaturization



Charging

## Product Highlights

- -20°C~60°C Operating Temperature for 5W
- Stability
- Compact Size
- Light Weight
- Suit Small to Mid Size Hand Held Computer, LCD Display, etc

## Efficiency

- Energy Efficiency Level VI ( ErP / DoE )
- Meet COMMISSION REGULATION(EU) 2019/1782
- Meet DOE 10 CFR part 429 and 430

## Protection

- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection

## Emissions

- FCC Part15 Class B
- CE CISPR 32 EN55032
- VCCI Class B
- BS EN 55032

## Safety Standard

- 60950-1
- 62368-1
- PSE 別表第八

## Immunity

- EN 55035
- BS EN 55035

# Electrical Spec

Input					
Description	Min.	Typ.	Max.	Units	Comment
Voltage	90	100~240	264	Vac	
Frequency	47	50/60	63	Hz	

Environmental					
Description	Min.	Typ.	Max.	Units	Comment
Operating Temperature for 10W	0	-	40	°C	Free Convection,Sea Level
Operating Temperature for 5W	-20	-	60	°C	Free Convection,Sea Level
Storage Temperature	-20	-	65	°C	Free Convection,Sea Level
Operating Humidity	5	-	95	%RH	No Condensing
Storage Humidity	5	-	95	%RH	No Condensing

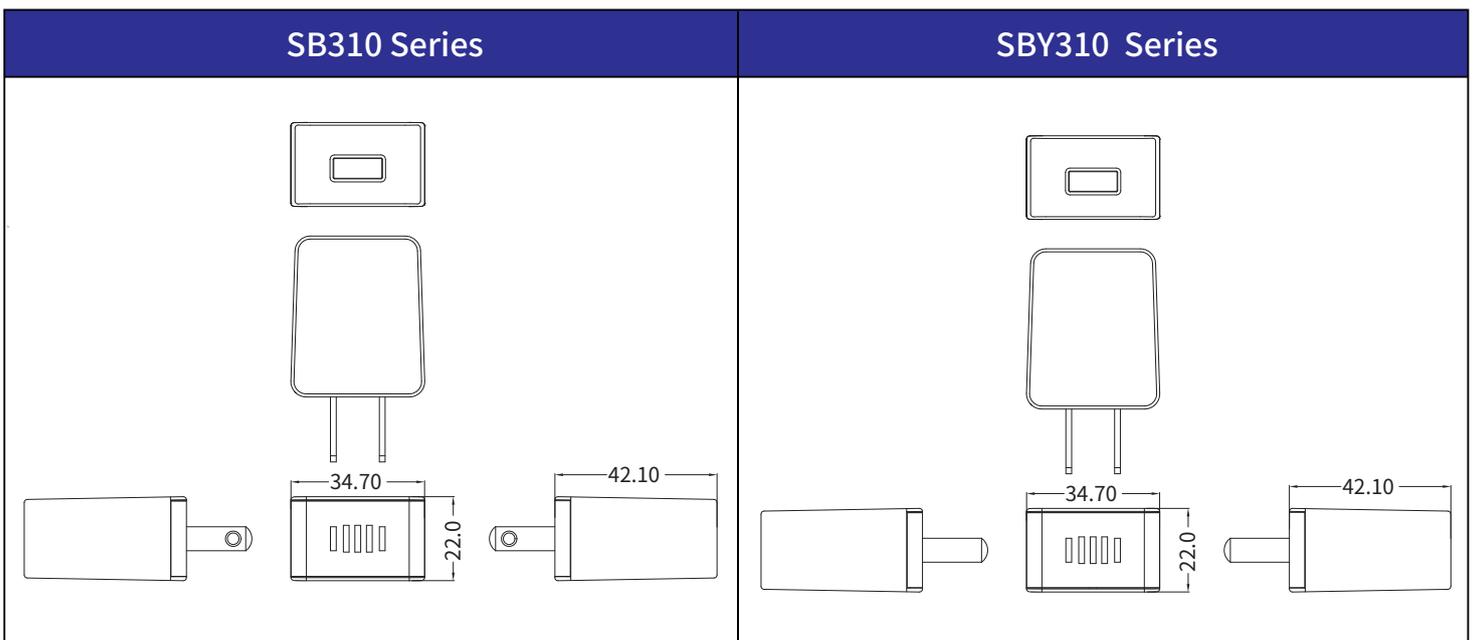
# Typical model list

No.		DC Output Voltage	DC Output Current	Output Voltage Precision	Ripple	Noise	Average Active Efficiency	No-Load Power Consumption	Option/Remark
1	SB310-0520	5.0V	1.0A	±5%	100mV	200mV	73.62%	0.1W	-20°C~60°C
		5.0V	2.0A	±5%	150mV	200mV	78.80%	0.1W	0°C~40°C

■ Measurement Condition

1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.
- Precaution The different output current is applied to the different operating temperature. For example, 12.0V/0.5A is for -20°C to 60°C and 12.0V/1.0A is for 0°C to 40°C. For the applicable safety standards, see the specification sheef.
3. Safety certificates were available for the model with 0~40 degrees operation.  
No certificates for the model which operating under -20~60 degrees,but the design can meet safety standard.

# Mechanical Spec



more detail on next page

SBE310 Series	SBK310 Series
SBA310 Series	

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■ Please contact our sales department for details of each model ■