

SU 12W Series

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



▲ SU318



▲ SUZ318



▲ SUE318



▲ SUA318



▲ SUK318



▲ SUR318



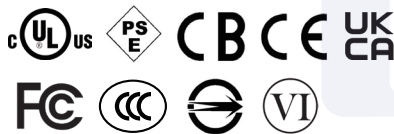
▲ SUL318



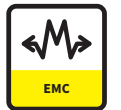
▲ SUF318



▲ SUG318



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



Product Highlights

- Stability
- Energy and High Efficiency
- Applicable to use in harsh environments.
- Suitable for IoT, AIoT/ automation equipment/ASRS

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
 - FCC Part15-B
- CE
 - EN(CISPR)55032-B
- VCCI-B

Safety Standard

- 60950-1
- 62368-1
- CNS14336
- GB4943.1
- PSE 別表第八

Immunity

- EN55035
- The above specifications include the following test standards
- ✓ EN61000-4-2
 - ✓ EN61000-4-3
 - ✓ EN61000-4-4
 - ✓ EN61000-4-5
 - ✓ EN61000-4-6
 - ✓ EN61000-4-8
 - ✓ EN61000-4-11

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 18W	0	-	40	°C	Free Convection,Sea Level
Operating Temperature for 12W	-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

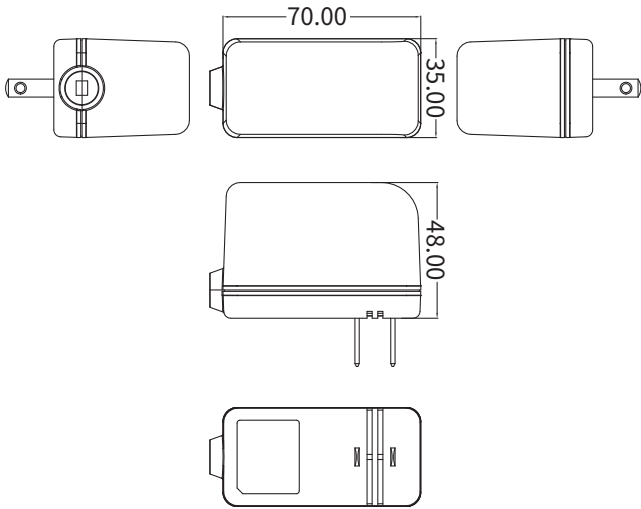
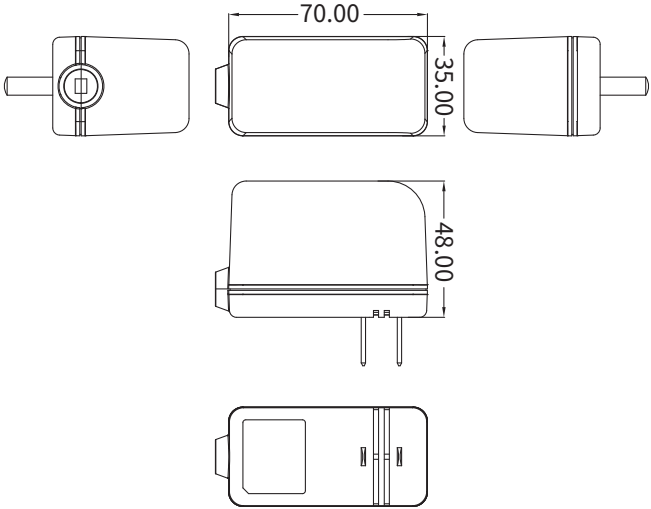
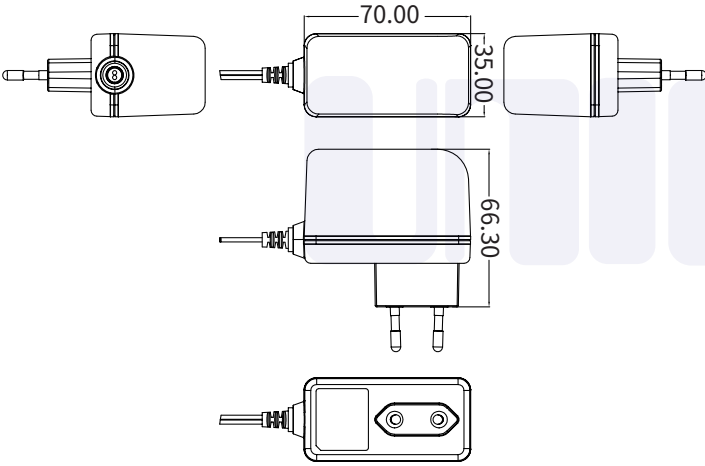
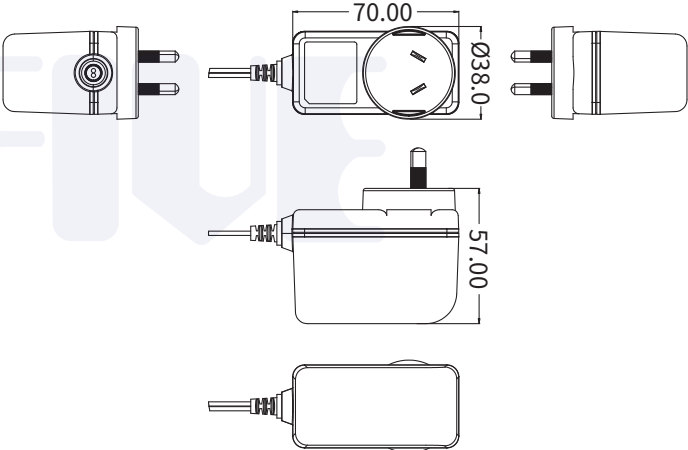
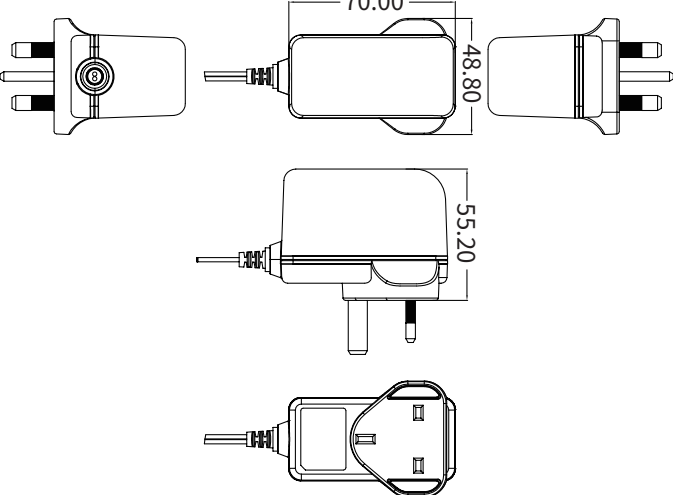
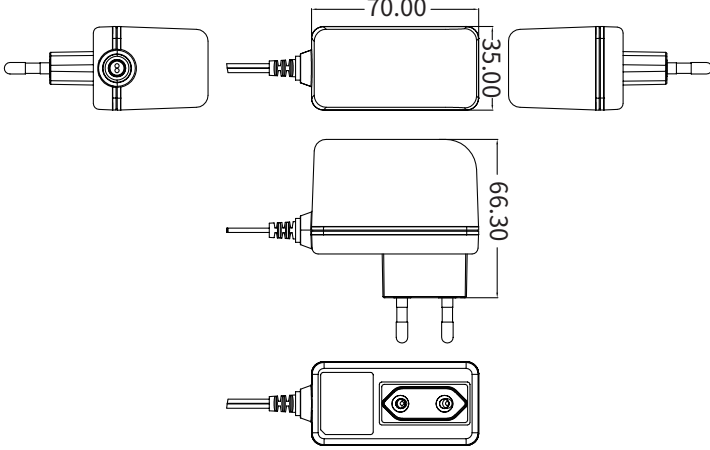
	Model Name	DC Output Voltage	DC Output Current	Output Voltage Precision	Ripple	Noise	Average Active Efficiency	No-Load Power Consumption	Option/Remark
1	SUx318-0530	5.0V	2.0A	±5%	150mV	150mV	78.70%	0.1W	-20°C~60°C
		5.0V	3.0A	±5%	150mV	150mV	81.39%	0.1W	0°C~40°C
2	SUx318-0530**	5.0V	3.0A	±5%	120mV	120mV	81.39%	0.1W	-20°C~60°C
3	SUx318-5925	5.9V	2.0A	±5%	150mV	150mV	79.83%	0.1W	-20°C~60°C
		5.9V	2.5A	±5%	150mV	150mV	81.28%	0.1W	0°C~40°C
4	SUx318-0920	9.0V	1.45A	±5%	200mV	240mV	83.41%	0.1W	-20°C~60°C
		9.0V	2.0A	±5%	200mV	240mV	85.00%	0.1W	0°C~40°C
5	SUx318-1215	12.0V	1.0A	±5%	150mV	240mV	82.96%	0.1W	-20°C~60°C
		12.0V	1.5A	±5%	150mV	240mV	85.00%	0.1W	0°C~40°C
6	SUx318-1512	15.0V	0.8A	±5%	200mV	300mV	82.96%	0.1W	-20°C~60°C
		15.0V	1.2A	±5%	200mV	300mV	85.00%	0.1W	0°C~40°C
7	SUx318-2475	24.0V	0.5A	±5%	240mV	480mV	82.96%	0.1W	-20°C~60°C
		24.0V	0.75A	±5%	240mV	480mV	85.00%	0.1W	0°C~40°C
8	SUx318-4804	48.0V	0.25A	±5%	480mV	480mV	82.96%	0.1W	-20°C~60°C
		48.0V	0.4A	±5%	480mV	480mV	85.00%	0.1W	0°C~40°C

■ Measurement Condition

- Measurements shall be made with an oscilloscope with 20MHz bandwidth.
- 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/1.0A is for -20°C to 60°C and 12.0V/1.5A is for 0°C to 40°C. For the applicable safety standards, see the specification sheef.
- 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.
- SUx318-0530** : Upgraded version with 5V/3A output for -20°C~60°C environment use.

more detail on next page

Mechanical Spec

SU318 Series	SUZ318 Series
	
SUE318 Series	SUA318 Series
	
SUK318 Series	SUR318 Series
	

Mechanical Spec

SUL318 Series	SUF318 Series
SUG318 Series	

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