

Dimmable LED Power Supply

Constant Current Driver Series

- Nominal Voltage 220~240Vac
- Protections: short circuit | over load | over voltage
- Power Factor: PF >0.95
- Efficiency >85%



Approval marks



Item	Value Unit Remarks
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1. Input

Nominal voltage	220 V
Variation Range	185 ~ 265 V
Nominal Frequency	50 ~ 60 Hz
Variation Frequency	47 ~ 63 Hz ±10 %
max input current	0.206 A
Unload Power Consumption	0.65 W
surge current	60A / 230VAC

2. Output




The output characteristic form	
Over Load Protection	Auto Restore
Over current Protection	Auto Restore
Short circuit Protection	Auto Restore
Over Temperature protection	Auto Restore

3. Environment

Operating Temperature	-20°C to 50°C
Relative Humidity	5%(-20°C)~90%(50°C)RH
Storage Temperature	-40°C to 85°C
Axes, 10 cycles per axis	No permanent damage may occur during testing. The product will restore to its original situation after power off / on.
Dropping	80cm 1 corner, 3 edges, and 6 surfaces, Height: 80cm
Hi-Pot	Primary to secondary, 3.75KVAC/min Primary to Case, 3.75KVAC/min
Leakage Current	<0.5mA
Insulation resistance	≥ 4.5M
Expected Lifetime	30,000hrs @ tc = 85°C, B10
	50,000hrs @ tc = 75°C, B10

AW02-xxxGxx

4. Safety & EMI

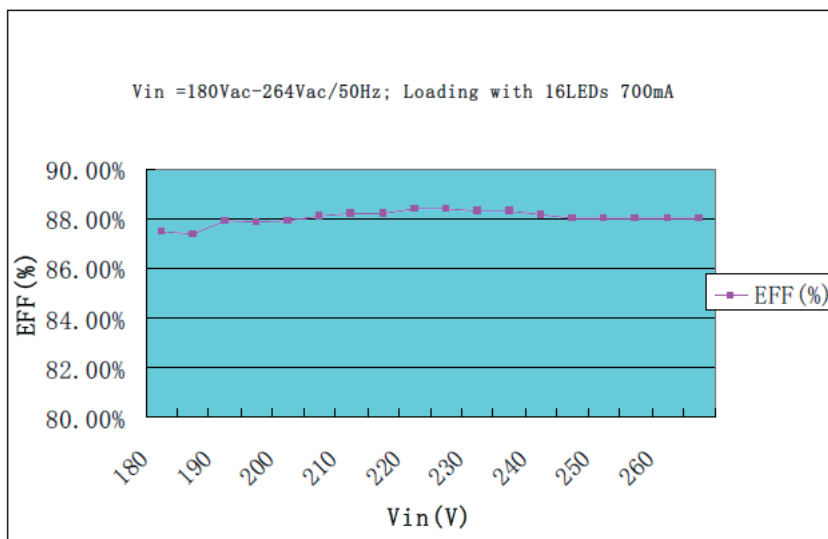
Approval	  
Safety standards	EN 61347-1; EN61347-2-13 EN60598-1; EN60598-2-6
EMI standards	EN55015 ; EN61000-2-3 EN61000-3-2; EN61547
EMF standards	EN62493

5. Output Characteristics

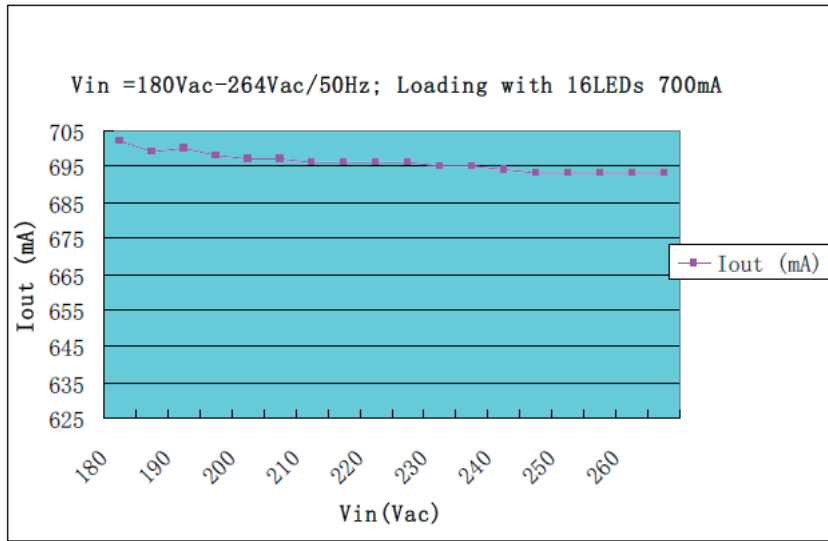
Model	Output Voltage	Output Power & Max. Load	Eff	Turn on delay time
AW02-350G30	75-105V Max120V	37W/350 mA ±5%	87%	<1S
AW02-500G32	35-52V Max70V	26W/500 mA ±5%	84%	<1S
AW02-500G40	50-70V Max85V	35W/500 mA ±5%	86%	<1S
AW02-600G37	32-56V Max70V	34W/600 mA ±5%	86%	<1S
AW02-600G45	45-62V Max75V	38W/600 mA ±5%	86%	<1S
AW02-700G36	25-42V Max55V	30W/700 mA ±5%	84%	<1S
AW02-700G48	35-56V Max70V	40W/700 mA ±5%	87%	<1S

6. Measurement data and graphs

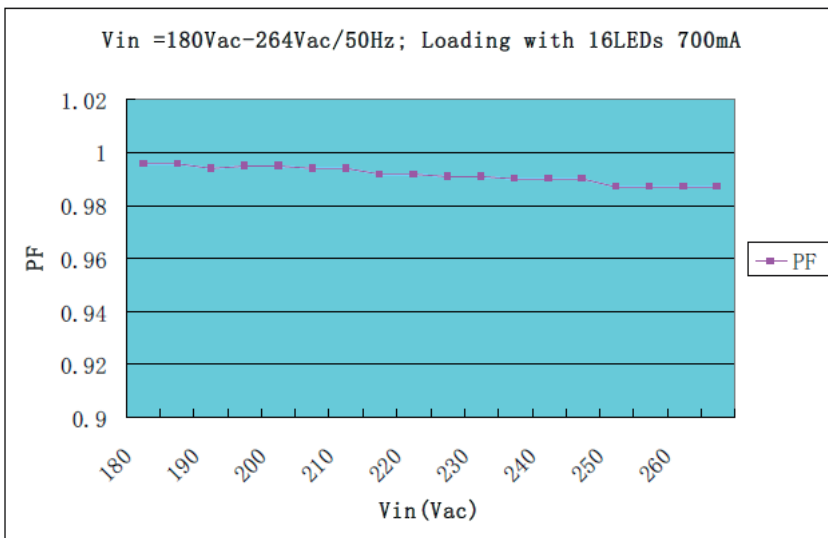
6.1 Variable Input Vs Efficiency



6.2 Variable Input Vs Iout Measurement

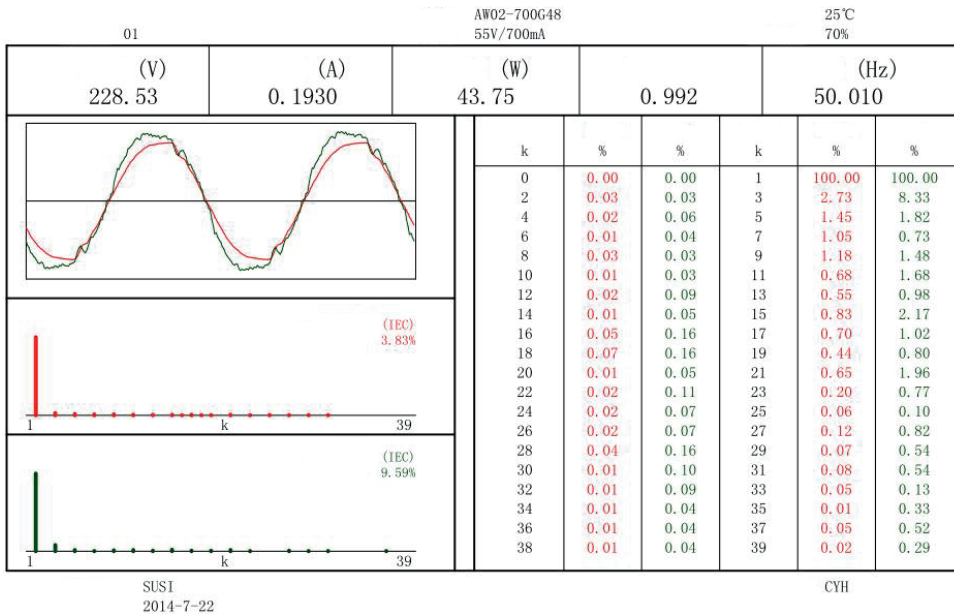


6.3 Variable Input Vs PF Measurement

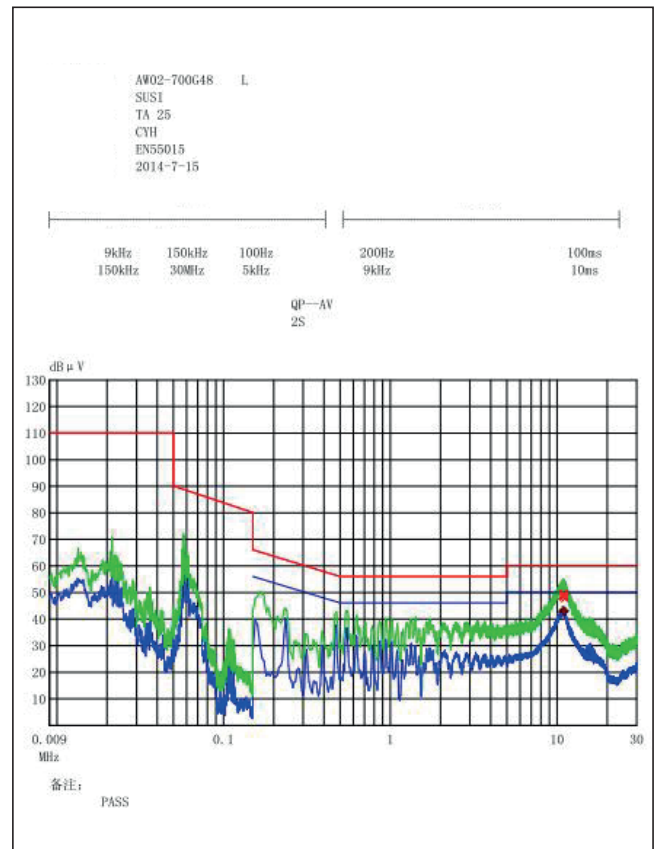
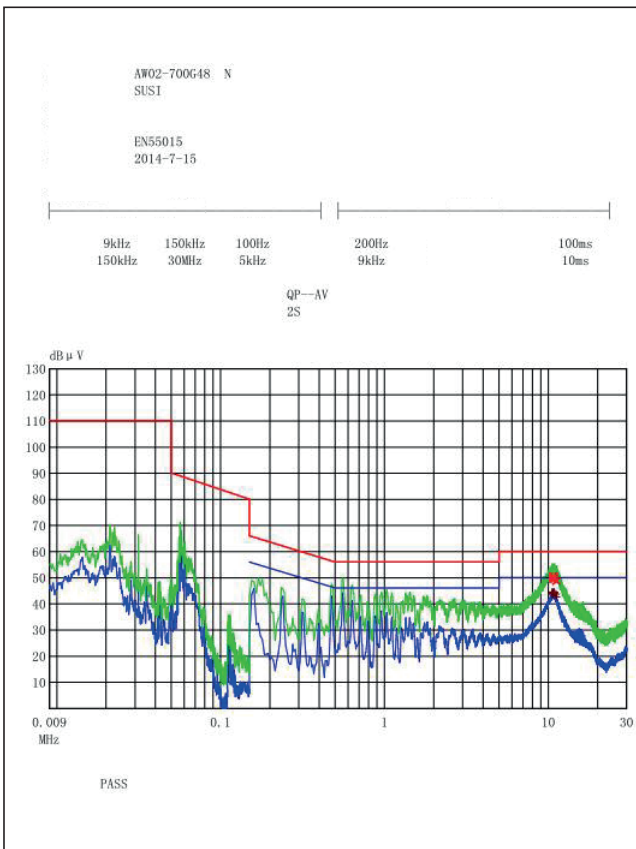


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7. Harmonics

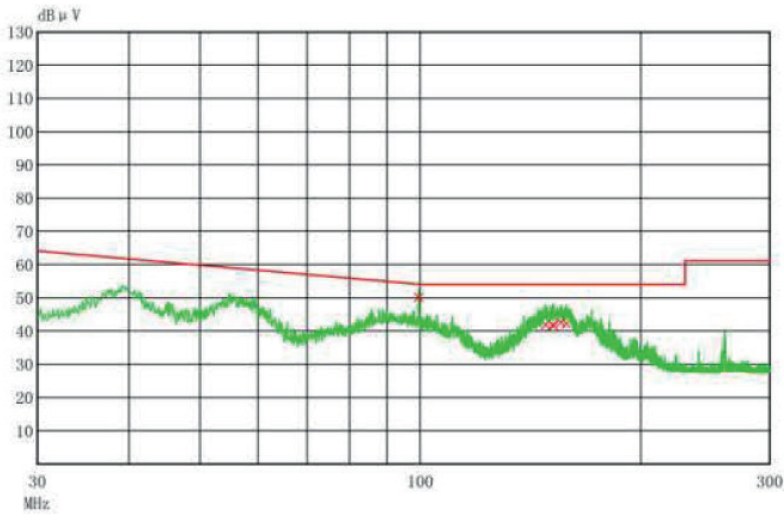


8. Conducted EMI (Full Load)



AW02-xxxGxx

8.1 Radiation EMI (Full Load)



9. Mechanical Requirement

9.1 Enclosure

The power supply size: 137*42.5*29.5mm

9.2 Input Connector:

Two pin input plug of VDE

10. Product Picture

FO MODLE NO: AW02-350G30	AW02-500G32	AW02-500G40
AW02-600G37	AW02-600G45	AW02-700G27
AW02-700G48	AW02-700G36	

