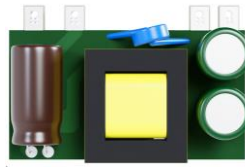


Product characteristics

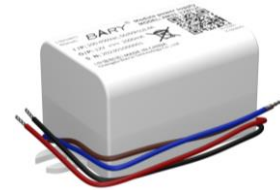
- ✧ Package outline : DIP , lead wire ;
- ✧ Temperature range : -40°Cto +85°C ;
- ✧ Efficiency : 54~85% ;
- ✧ Isolation Voltage : 1500VAC ;
- ✧ Input range : 85 ~ 264Vac , 120~370Vdc;
- ✧ Output protection : current limit 、 short circuit ;
- ✧ application area : industry、 Instrumentation、 track、 traffic、 Smart Street Lamp、 Smart Home、 Intelligent switch、 Smart Home.



D_DIP



V
DIP



C
Lead wire

Selection Guide

| Product model | Input Voltage (Vac) | Output | | | Efficiency(%) Min./Typ. | Max capacitive load (μF) |
|---------------|-----------------------|-------------|-----------------|----------------------------|----------------------------|----------------------------|
| | | Power (W) | Voltage (VDC) | current (mA) Max./Min | | |
| AM11-5W05V | 85 ~ 264 | 5 | 5 | 2400 | 75 | 680 |
| AM11-5W05C | | | 5 | 2400 | 75 | 680 |
| AM11-5W12V | | | 12 | 1000 | 80 | 470 |
| AM11-5W12C | | | 12 | 1000 | 80 | 470 |
| AM11-5W15V | | | 15 | 800 | 80 | 330 |
| AM11-5W15C | | | 15 | 800 | 80 | 330 |
| AM11-5W24V | | | 24 | 500 | 85 | 220 |
| AM11-5W24C | | | 24 | 500 | 85 | 220 |

Input Specifications

| Item | Operating Conditions | Min. | Typ. | Max. | Unit |
|---------------------------------|----------------------|------------------------------|------|------|------|
| Input Voltage range | AC Input | 85 | -- | 264 | Vac |
| | DC Input | 119 | 308 | 370 | Vdc |
| Input frequency | AC Input | 47 | -- | 63 | Hz |
| Input current | 220VAC | -- | 54 | / | mA |
| Start up time | | -- | 800 | 1500 | ms |
| Input filter Typ | | C | | | |
| Recommended External Input Fuse | | 1A/250V, slow-blow, required | | | |

Output Specifications

| Item | Operating Conditions | | Min. | Typ. | Max. | Unit |
|--------------------------|---|---------|---------------------------|-------|------|------|
| Output Voltage Accuracy | -- | -- | -- | ±3 | ±5 | % |
| Line Regulation | Full load | | -- | ±1.5 | -- | % |
| Load Regulation | 10%~100% Load(balanced load) | AM11-5W | -- | ±3 | -- | % |
| Ripple & Noise | 20MHz bandwidth (peak-to-peak value) | AM11-5W | -- | -- | 120 | mV |
| Temperature Coefficient | | | -- | ±0.15 | -- | %/°C |
| Short Circuit Protection | | | Continuous, self-recovery | | | |
| Over current current | AM11-5W | | 110~150% Io self-recovery | | | |
| Min. Load | | | 0 | -- | -- | % |

General Specifications

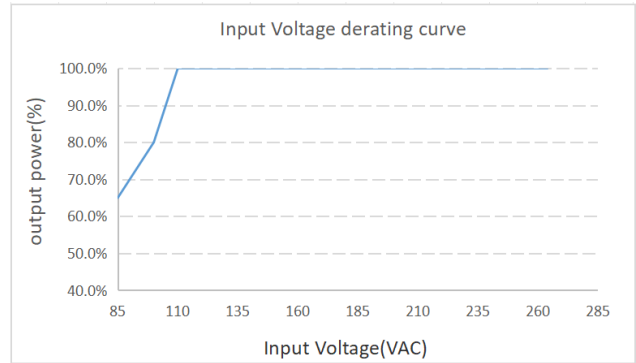
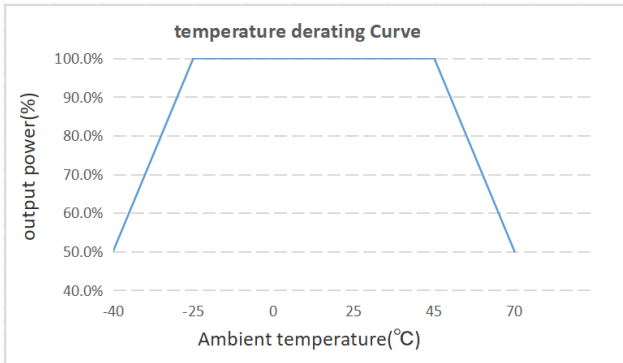
| Item | Operating Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|----------------------|--------------------------------|------|------|------|
| Isolation Voltage | Input - output | 1500 | -- | -- | Vac |
| operating Temperature | | -40 | 25 | +55 | °C |
| storage Temperature | | -40 | 25 | +85 | |
| storage Humidity | | -- | -- | 95 | %RH |
| soldering Temperature | Wave-soldering | 260 ± 5°C; time : 5-10s | | | |
| | Manual welding | 360 ± 10°C; tim : 3-5s | | | |
| Switching Frequency | | -- | 65 | -- | KHz |
| MTBF | | MIL-HDBK-217F@25°C > 200,000 h | | | |

Mechanical Specifications

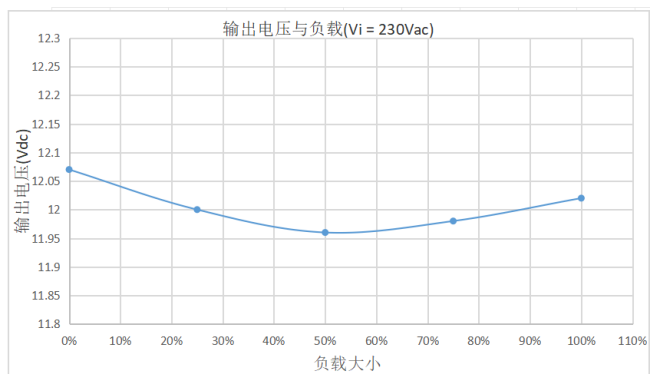
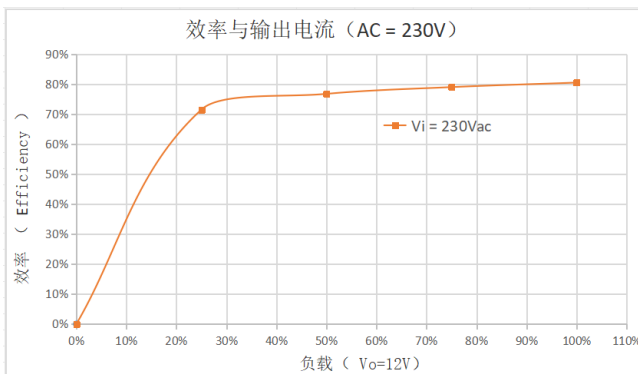
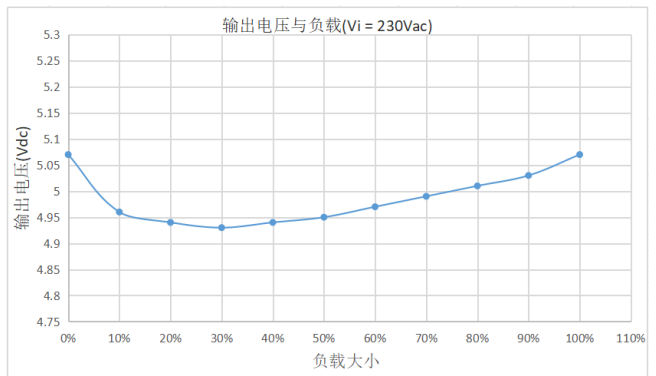
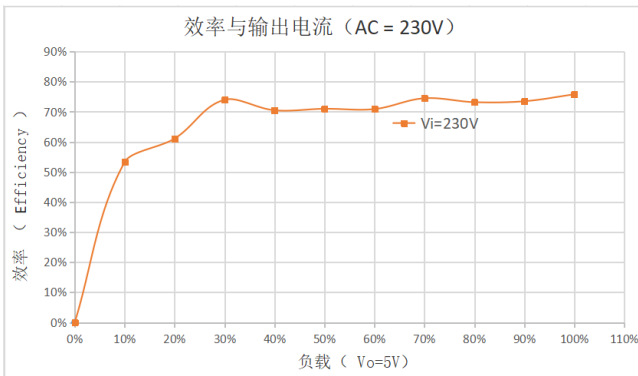
| | | |
|---------------|------------------------------------|------------------|
| Case Material | flame-retardant and heat-resistant | |
| Size | AM11-5W-V | 34.7*20.6*15.5mm |
| | AM11-5W-C | 38x28x23mm |

| | | |
|----------------|-----------|---------------------|
| Weight | AM11-5W-V | 18g(Typ.) |
| | AM11-5W-C | 15g(Typ.) |
| Cooling method | | Free air convection |

Product Characteristic Curve

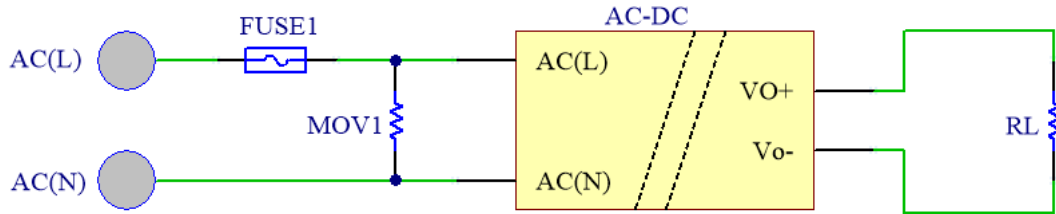


Efficiency vs load



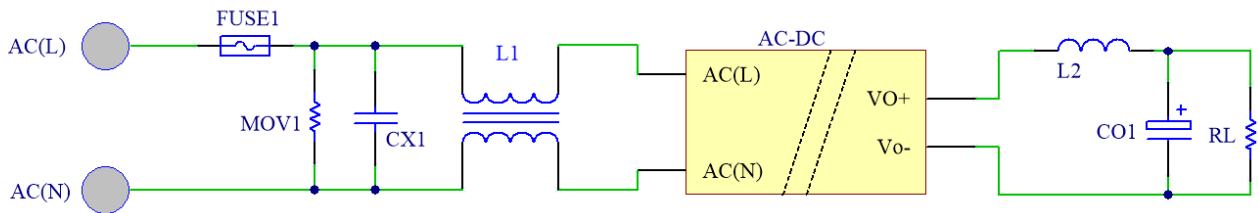
Design Reference

Typical application circuit



| FUSE1 | MOV1 |
|-----------------------------|----------|
| 1A/500V Slow-blow, required | 10D 821K |

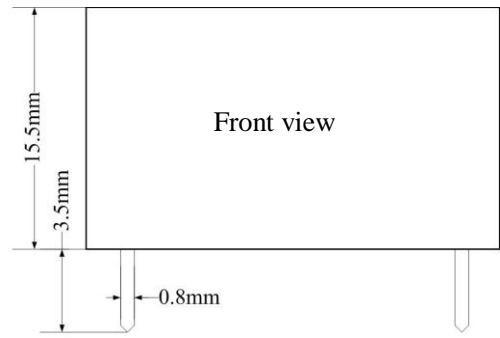
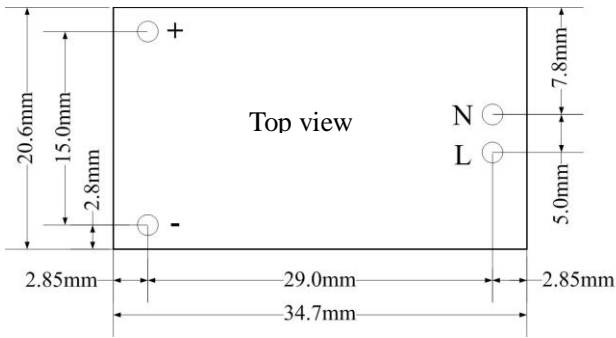
EMC compliance recommended circuit



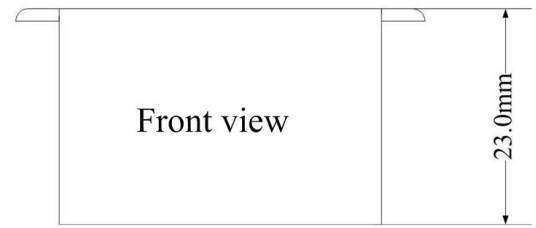
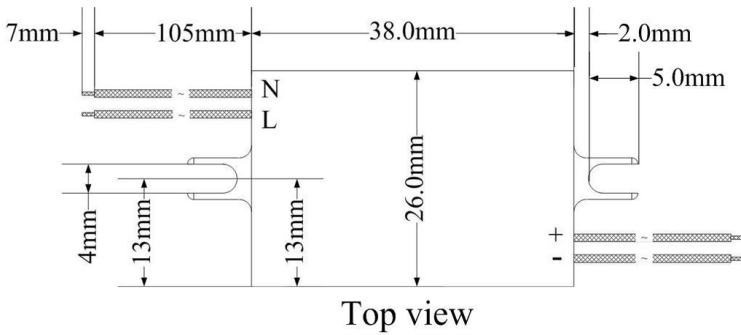
| FUSE1 | MOV1 | CX1 | L1 | L2 | CO1 |
|-----------------------------|----------|------------|--------------|--------------------------|-------|
| 1A/250V Slow-blow, required | 10D 821K | 0.1uF/250V | UU9.8 - 10mH | 0.47uH SLO0420HR47MTT | 220uF |

Dimensions and Recommended Layout

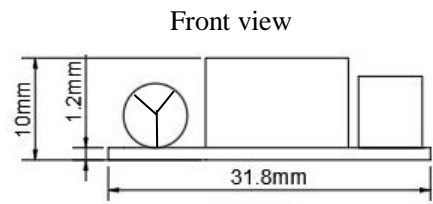
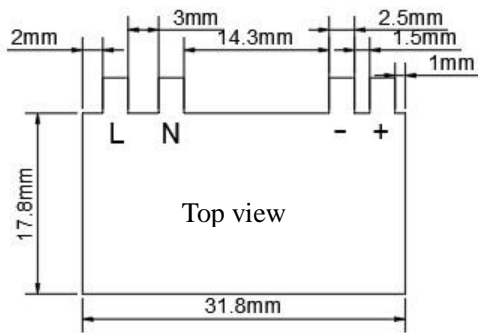
AM11-5W-V



AM11-12W-C



AM11-5W-D



Note:

Pin diameter tolerances: ±0.1mm

General tolerances: ±0.5mm

| PIN | Note |
|-----|------------------------|
| L | AC_L Input Voltage |
| N | AC_N Input Voltage |
| + | +DC Output Voltage |
| - | -DC Output Voltage GND |

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