# AM11-12W



Chengdu Ebyte Electronic Technology Co.,Ltd.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

## Product characteristics

- Package Type: DIP , lead wire ;
- Temperature range: -40 ℃ to +85 ℃;
- Conversion efficiency: 87% (max) ;
- Isolation withstand voltage: 3000VDC ;
- Input range: 85 ~ 264VAC , 120 ~ 370VDC ;
- Output protection: over-current and short-circuit protection;
- Application areas: industry, instrumentation, rail transit, smart street lights, Switch, smart home.



V
DIP



C
Lead wire

## Selection Table

| Product number | Input voltage range | Output | | | Efficiency (%) Min./Typ. | Maximum capacitive load load ( μF ) |
|---|---|---|---|---|---|---|
| | | Power ( W ) | Voltage ( VDC ) | Current ( mA ) Max./Min | | |
| AM11-12W05V | 85 ~ 264VAC 120~370VDC | 12 | 5 | 2400 | 86.2 | 1500 |
| AM11-12W05C | | | 5 | 2400 | 86.2 | 1500 |
| AM11-12W12V | | | 12 | 1000 | 87.3 | 1000 |
| AM11-12W12C | | | 12 | 1000 | 87.3 | 1000 |
| AM11-12W15V | | | 15 | 800 | 87.5 | 680 |
| AM11-12W15C | | | 15 | 800 | 87.5 | 680 |
| AM11-12W24V | | | 24 | 500 | 87 | 470 |
| AM11-12W24C | | | 24 | 500 | 87 | 470 |

* Note : This series cannot be used for RF communication equipment;

## Input parameters

| Item | Operating conditions | Minimum value . | Typical value . | Maximum value . | Unit |
|---|---|---|---|---|---|
| Input voltage range | AC input | 85 | -- | 264 | Vac |
| | DC input | 119 | -- | 370 | Vdc |
| Input frequency | AC input | 47 | -- | 63 | Hz |
| Input Current | AC input (220VAC/50Hz) | -- | 106 | -- | mA |
| Boot time | | -- | 800 | 1500 | ms |
| Inrush current | AC input | -- | 10 | -- | A |
| Input filter type | | C | | | |
| External fuse | | 1A/250VAC, slow break, must be connected. | | | |

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## Output parameters

| Item | Operating conditions | | Minimum value . | Typical value . | Maximum value . | Unit |
|---|---|---|---|---|---|---|
| Output voltage accuracy | -- | -- | -- | ± 3 | ± 5 | % |
| Voltage Regulation | Fully loaded | | -- | ± 1.5 | -- | % |
| Load Regulation | 10%~100% load | AM21-12W-V | -- | ± 3 | -- | % |
| Ripple Noise | 20MHz bandwidth, 100% load | AM21-12W-V | -- | -- | 120 | mV |
| Temperature Drift Coefficient | Fully loaded | | -- | ±0.15 | -- | %/ ℃ |
| Short circuit protection | | | Sustainable, Self-recovery | | | |
| Overcurrent protection | AM11-5W | | 110~150% Io Self-recovery | | | |
| Minimum load | | | 0 | -- | -- | % |

## General Features

| Item | Operating conditions | | Minimum value | Typical value | Maximum value | Unit |
|---|---|---|---|---|---|---|
| Insulation Dinaya | enter - Output | | 3000 | -- | -- | Vac |
| Working temperature | | | -40 | 25 | +55 | ℃ |
| Storage temperature | | | -40 | 25 | +85 | ℃ |
| Working humidity | | | -- | -- | 95 | %RH |
| Soldering temperature | Wave Soldering | | 260 ± 5 ℃ ; time : 5-10s | | | |
| | manual welding | | 360 ± 10 ℃ ; time : 3-5s | | | |
| Switching frequency | | | -- | 65 | 72 | KHz |
| Mean time between failures | | | MIL-HDBK-217F@25 ° C > 100,000 h | | | |

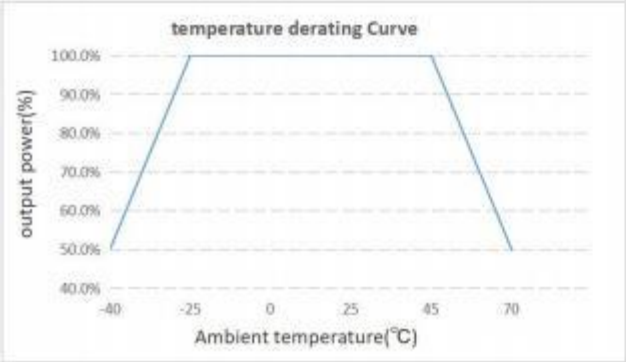
## Mechanical specifications

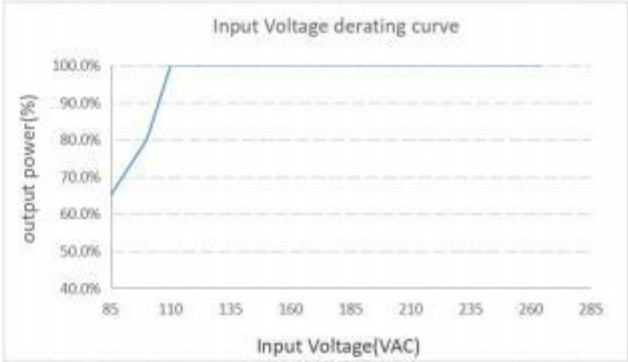
| Housing Material | | Flame retardant and heat resistant |
|---|---|---|
| Dimensions | AM11-5W | 38.2*25.2*23 mm |
| Product weight | AM11-5W-V | 30g (Typ.) |
| | AM11-5W-C | 25g (Typ.) |
| Cooling method | | Natural cooling |

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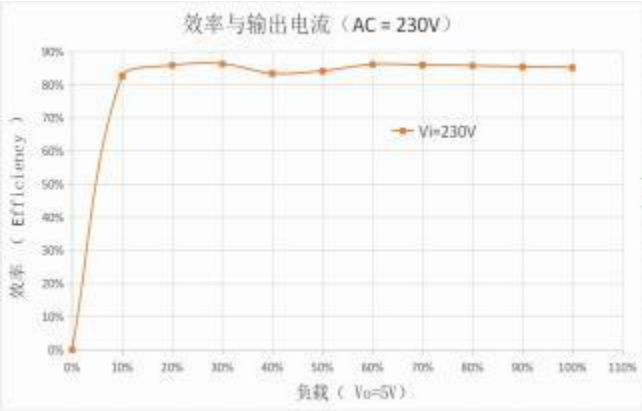
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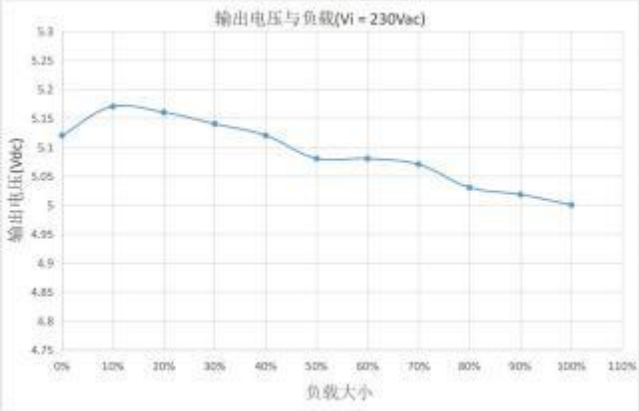
## Product characteristic curve

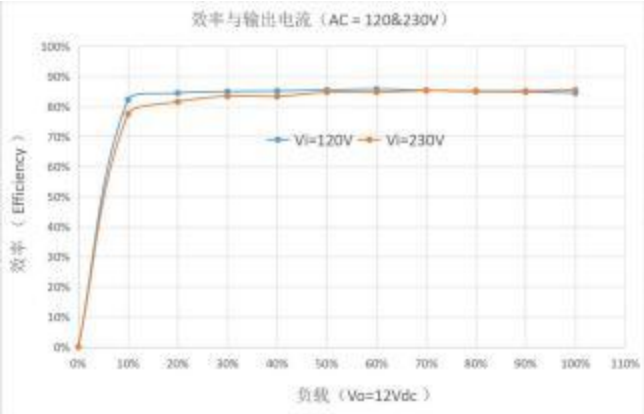


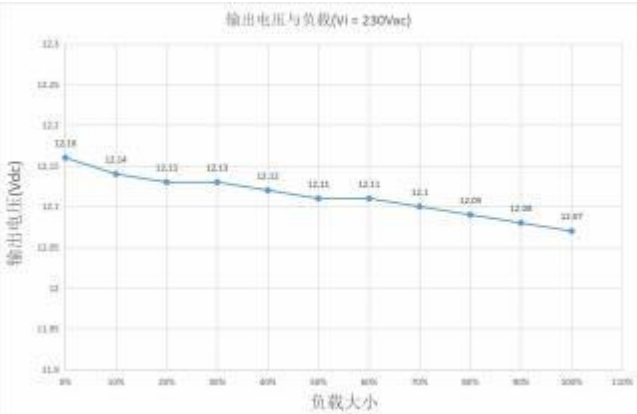




## Conversion efficiency and load



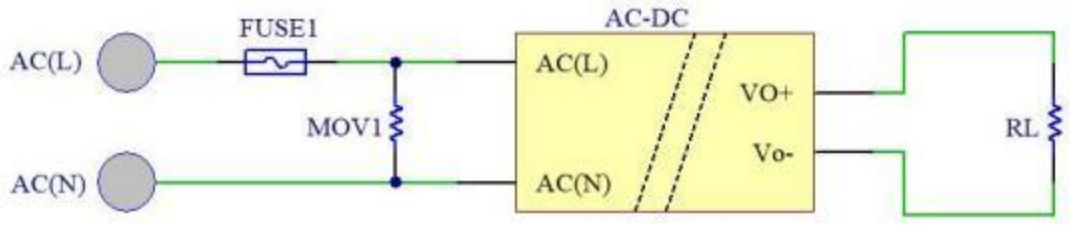




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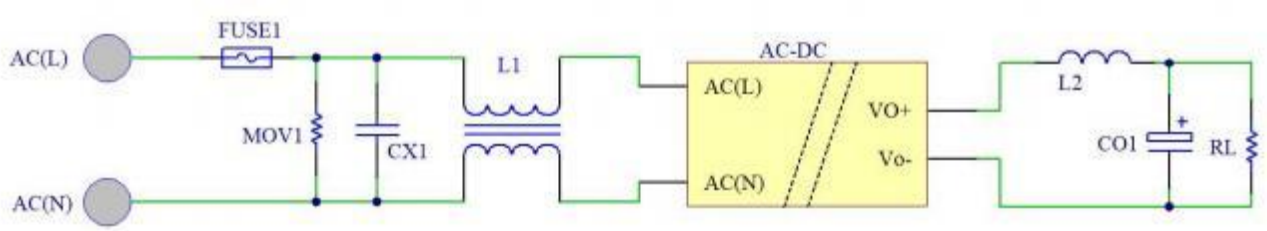
## Reference Design

Typical application design




| FUSE1 | MOV1 |
|---|---|
| 1A/250VAC Slow-blow, required | 10D 431K |

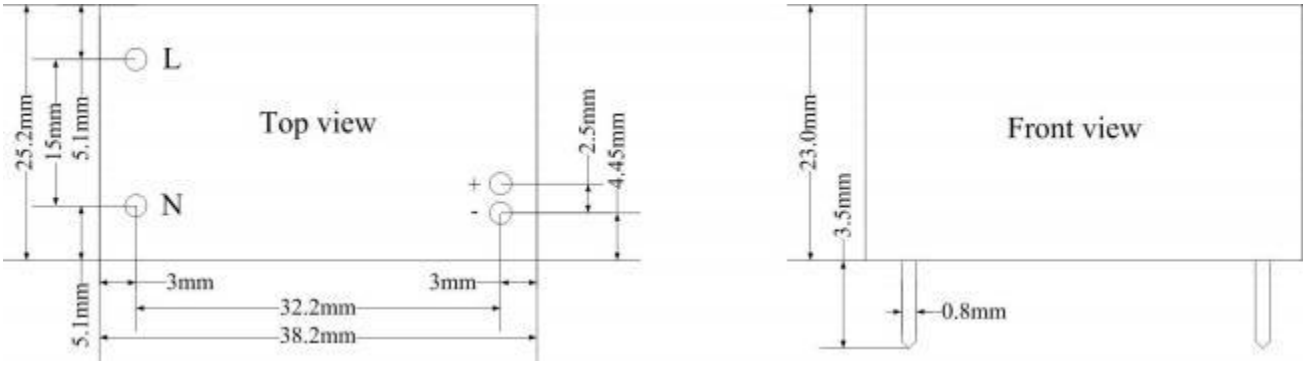
EMC Recommended circuit design




| FUSE1 | MOV1 | CX1 | L1 | L2 | CO1 |
|---|---|---|---|---|---|
| 1A/250V Slow disconnect, must connect | 10D 431K | 0.1uF/250V | UU9.8 - 10mH | 0.47uH SLO0420HR47MTT | 220uF |

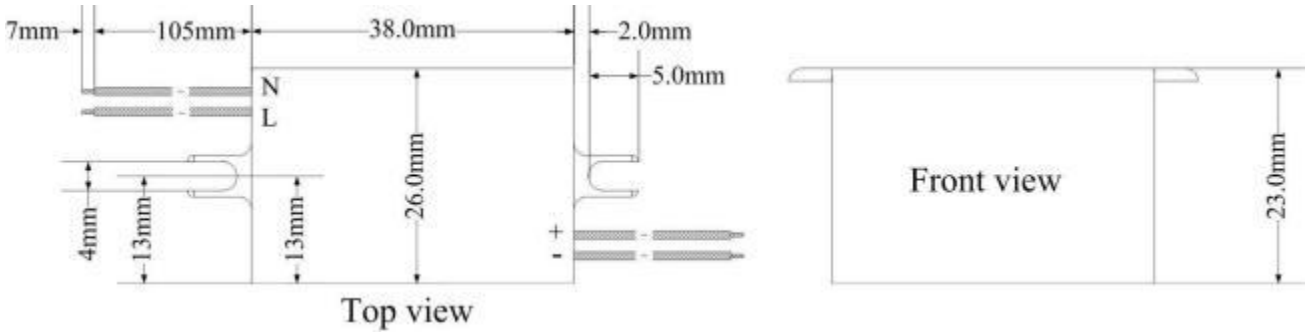
## Product Dimensions

AM11-12W-V




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AM11-12W-C




Note:

Pin diameter tolerances:±0.1mm

General tolerances: ±0.5mm

| PIN | Note |
|---|---|
| L | AC_L AC Input_LiveWire |
| N | AC_N AC input_neutral line |
| + | +DC DC output positive |
| - | -DC DC output reference ground |

# About us

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Thank you for using Ebyte products! Please contact us with any questions or suggestions: lirong@cdebyte.com

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