

DCDC-RED80-6A
80W step down module



This is a high-performance switching buck module with 6A current.

The module is the second generation of high-frequency switching technology and uses TPS40057 core chip.

Specifications

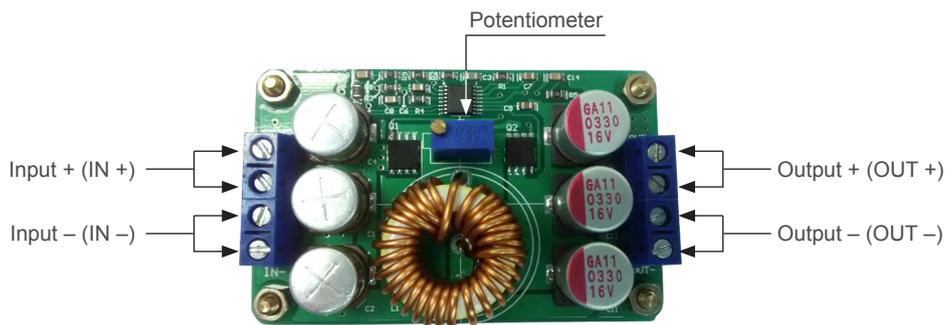
| Item | Value | Remarks |
|-----------------------------------|------------------|--|
| Description | Step-down (buck) | |
| Power | 80W | Input max. |
| Input range | 16V ~ 40V | |
| Output range | 1.0V ~12V | |
| Output current | 0 ~ 6A | With natural cooling. |
| Working temperature | -40°C ~ +85°C | If working temperature is higher than 40°C working power should be reduced or heat dissipation should be improved. |
| Conversion efficiency | <94% | The smaller the difference between the input and output voltage, the higher the efficiency |
| Dimensions | 68 x 44 x 22 mm | |
| Weight | 45.91g | |
| Connection mode | Terminals | |
| Waterproof | IP20 | |
| Shortcircuit protection | No | Fuses and protection circuits must be installed on the input side. |
| Input reverse polarity protection | No | A protection diode must be installed on the input side |
| Overvoltage protection | Yes | Low voltage shutdown. |
| No load current | 7.7mA | With 24V input, 5V output |

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Operation

| Input | | Output | | P(in) | P(out) | Efficiency |
|-------|--------|--------|--------|-------|--------|------------|
| V (V) | I (Ah) | V (V) | I (Ah) | W | W | % |
| 40.00 | 1.93 | 11.98 | 6.00 | 77.20 | 71.88 | 0.93 |
| 40.00 | 0.84 | 5.00 | 6.00 | 33.60 | 30.00 | 0.89 |
| 40.00 | 0.70 | 3.30 | 6.00 | 28.00 | 19.80 | 0.71 |
| 24.00 | 3.18 | 11.90 | 6.00 | 76.32 | 71.40 | 0.94 |
| 24.00 | 1.38 | 5.00 | 6.00 | 33.12 | 30,00 | 0.91 |
| 24.00 | 0.96 | 3.30 | 6.00 | 23.04 | 19.80 | 0.86 |

Use mode



- First, turn the potentiometer counterclockwise to lower the output voltage. Then connect the source.
- Do not exceed the input power limits.
- Do not exceed the current output limits.
- Do not short-circuit the input and output connections.
- Set output voltage before connecting load.
- Do not reverse polarity of the input and output connections.

Warning!

To prevent fire shock hazard do not expose this appliance to rain or moisture. Always place the converter in an environment which is:

- Well ventilated.
- Not exposed to direct sunlight or heat source.
- Out of reach from children.
- Away from water/moisture, oil or grease.
- Away from any flammable substance.
- Secure and no risk of falling.