

PM-1500D

Dual Output DC/DC Power Module Datasheet

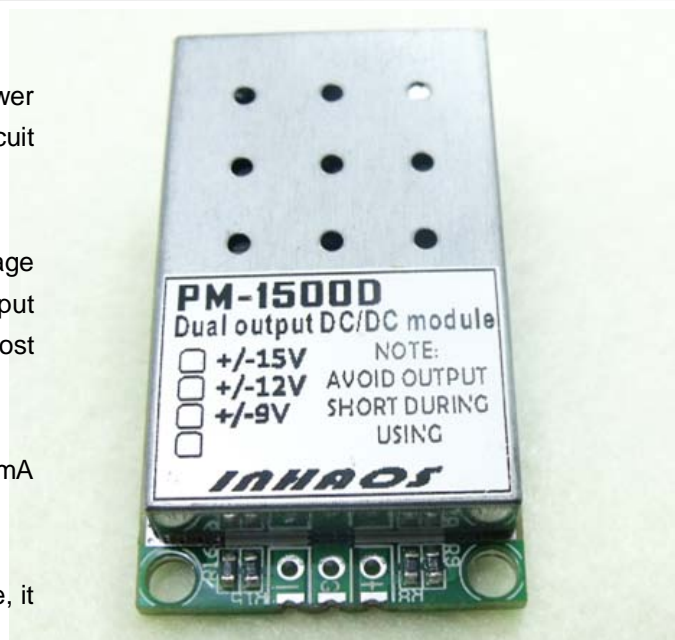
DESCRIPTION

The PM-1500D is a single input, dual output DC-DC power supply module, PM-1500D integrated one DC-DC boost circuit and one voltage inverting converter.

The PM-1500D can be operation from 3V to 15V, output voltage is adjustable through two external resistors, the positive output voltage must set to higher than the input since it adopt boost topology.

The output current is reach to 150mA from +15V and 100mA from -15V when input is 5V, the ripple lower than 0.2%.

PM01500D is a high performance and low cost power module, it good for DIY and formal product.



PARAMETERS

Input voltage: +3V to +15V

Output voltage: +-5V to +-15V adjustable

The positive and negative voltage can be adjustable separately, The positive voltage must set to higher than input voltage

Rated load (Input=5V): 200mA from +15V
100mA from -15V

Ripple (rated load): 25mVrms from +15V
26mVrms from -15V

Efficiency (rated load): 65%

Input current (Input=5V, No load): 65mA

Operation Frequency: 50KHz

PCB Dimension: 46mm * 25mm * 7.5mm

Weight: 10.5g

Storage Temperature: -40 to 105° C

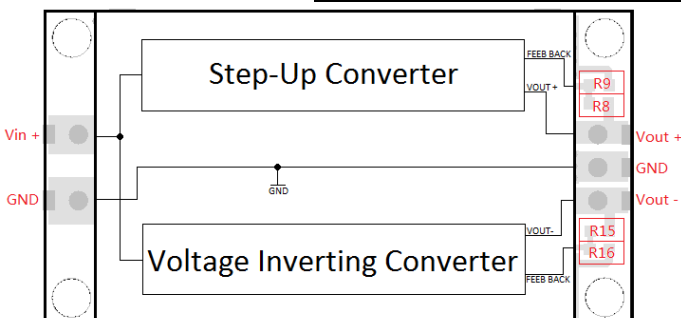
Operator Temperature: 0 to 70° C

BLOCK DIAGRAM

$$V+ \text{ OUTPUT} = 1.25 * (1 + R8/R9)$$

$$V- \text{ OUTPUT} = -1.25 * (1 + R16/R15)$$

Output (V)	R8	R9	R15	R16
+15V	11K	1K	1K	11K
+11.5V	8.2K	1K	1K	8.2K
+9V	6.2K	1K	1K	6.2K



APPLICATIONS

- Single powered analog circuit
- Instrument amplifier circuit
- Audio application
- Data acquisition system
- Sensor amplifier
- Operational amplifier power supply

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