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PRODUCT INFORMATION / GUIDE

DC-DC 8A Adjustable Step Down Power - XH-M401

DC-DC 8A Adjustable Step Down Power Supply - XH-M401

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PRODUCT SKU: **PHI1002953**

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PRODUCT INFORMATION / GUIDE

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INDEX

INTRODUCTION

Thank you for purchasing the DC-DC 8A Adjustable Step Down Power Supply Module - XH-M401. The main IC used here is the XL4016 switch-type voltage regulator chip, and it has an MBR10200 double rectifier diode circuit.

The output voltage is continuously adjustable from 1.25 to 36V while the input voltage is 4V to 40V. The module has over-current protection, over-temperature protection, and short-circuit protection.

The voltage regulation method used is PWM modulation.

Maximum current is 8A while maximum power is 200W. The Conversion efficiency is 94% while the switching frequency is 180 kHz.

Note: *When the maximum output current reaches 8A, a fan needs to be added. For Long-term operation, ideally cap your requirement to 5A.*

MAIN FEATURES

- Wide input and output voltages
- High output current and power

- Over-current protection
- Over-temperature protection
- Short-circuit protection
- High Efficiency

PRODUCT SPECIFICATIONS

Input Voltage:	4V to 40V DC
Output Voltage:	1.25V to 36V DC (adjustable)
Maximum Output Current:	8A (recommended ≤5A for continuous use)
Maximum Power:	200W
Conversion Efficiency:	Up to 94%
Switching Frequency:	180kHz
Protection Features:	Overcurrent, Overtemperature, Short-Circuit
Dimensions:	61mm x 41mm x 27mm
Weight:	Approximately 51g

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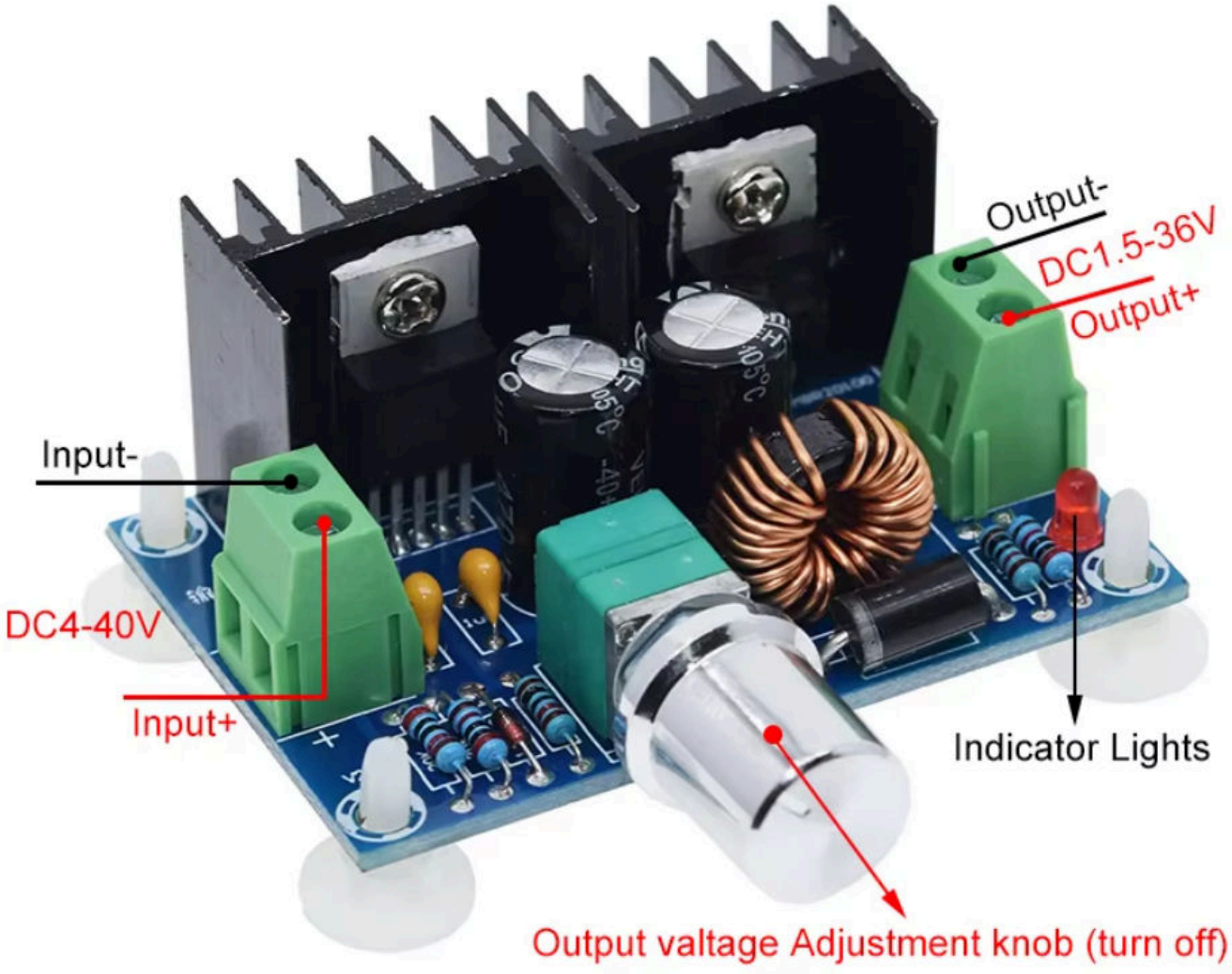
Product Label



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PRODUCT INFORMATION / GUIDE

DC-DC 8A Adjustable Step Down Power - XH-M401

Dimensions

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PRODUCT INFORMATION / GUIDE

DC-DC 8A Adjustable Step Down Power - XH-M401

Product Diagrams

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PRODUCT INFORMATION / GUIDE

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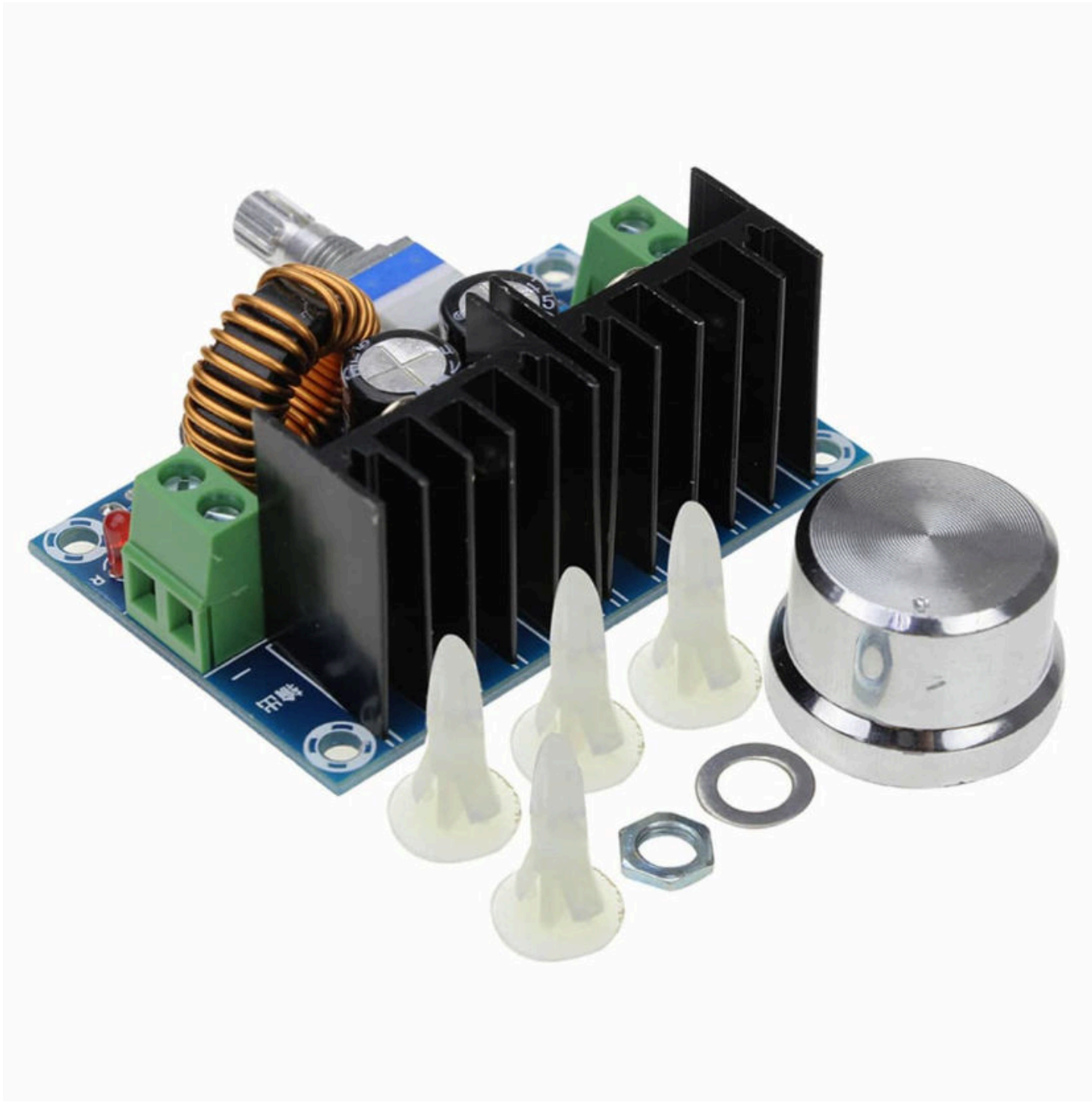
PRODUCT INFORMATION / GUIDE

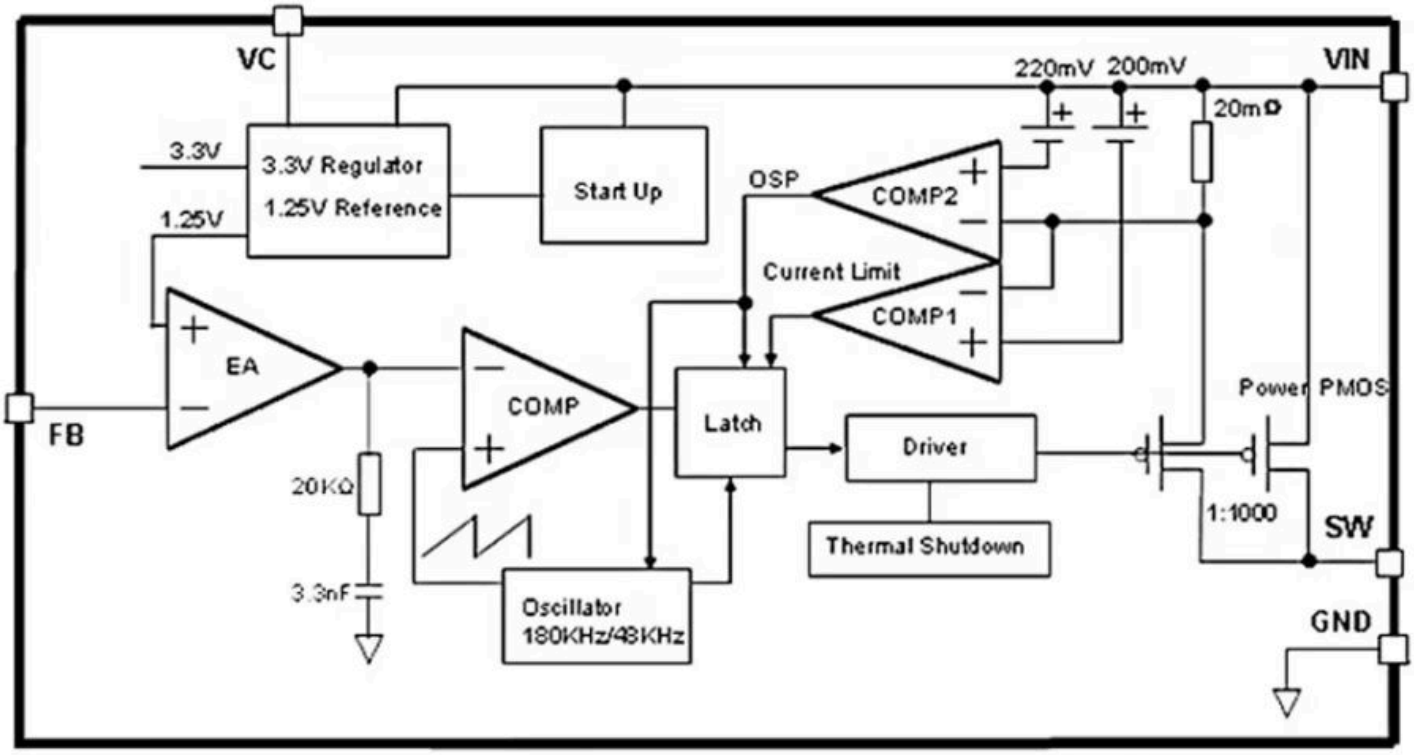
DC-DC 8A Adjustable Step Down Power - XH-M401



Internal Chip Design

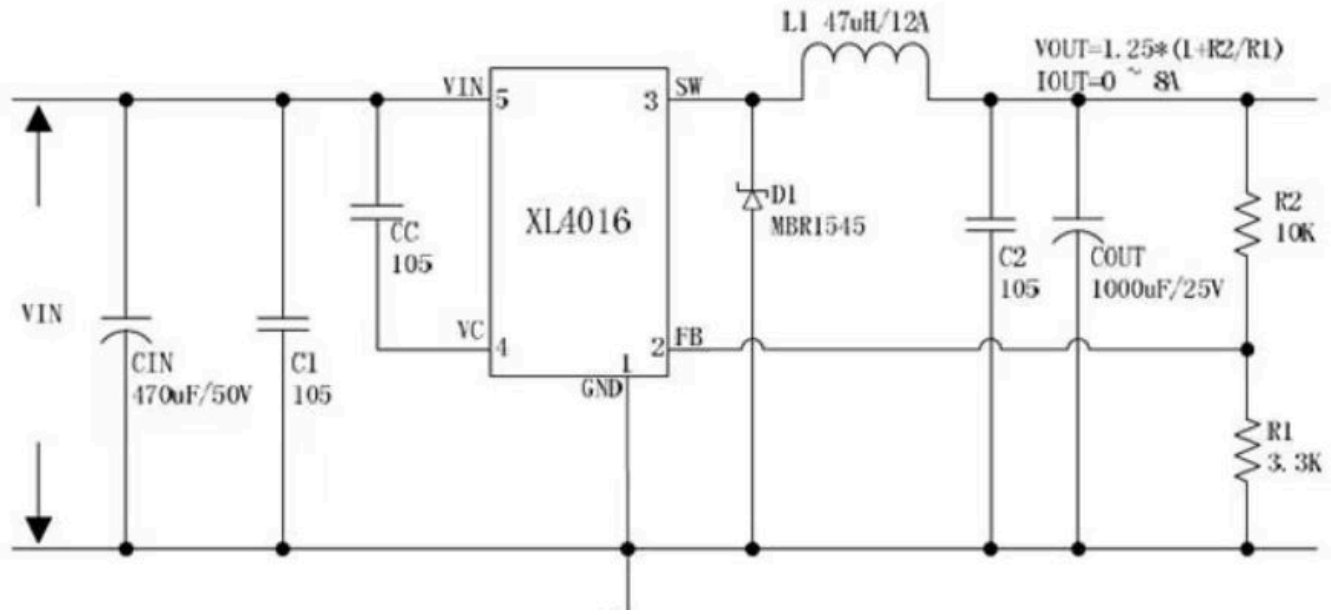
Schematics/Block Diagrams

Internal Chip Design



Typical Application Circuit of the Chip

Typical Application Circuit



PRODUCT INFORMATION / GUIDE

DC-DC 8A Adjustable Step Down Power - XH-M401

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