https://detail.1688.com/offer/558183327865.html?spm=a26286.10576602.0.0

XL6009 power supply adjustable, DC-DC boost-buck module (RED board)

Introduction:

1. New original XLSEMI chip, fake and disassembled machine chip.
2. Up to 400Khz operating frequency, and LC filter circuit, output ripple is very low.
3. Imported TDK inductance, reduce heat and interference.
4. Input and output 3 MLCC multilayer ceramic capacitors, anti-interference stability.
5. PCB adopts kb class A board material, cardboard, garbage board.
6. Built-in MOSFET, and LM2577 built-in audion say goodbye, can be 94% rate.
7. Added an enable port to control whether the booster circuit works.

15W power module with an enabling port

Size: 49(L)*23.4(W)*11.4(H) mm (without potentiometer)

Module parameter:

Module Nature: Non-isolated BOOST Module (BOOST)

Input voltage: 5-32V

Output voltage:

(1) Continuously adjustable (5-50V)

(2) Fixed output (optional between 5-50V), please tell the shopkeeper when buying.

(3) If you need higher voltage, please contact me directly

Output current: 2A (MAX)

Input current: 4A (MAX)

Output power: natural cooling 15W, plus heat sink 25W (MAX) actual power

Output power = input voltage *4A* conversion efficiency

Output ripple: Input 12V output 24 0. Ripple 30MV 20M bandwidth

Operating temperature: Industrial grade (-40℃ to +85℃) (ambient

temperature exceeds 40℃, please reduce power use, or strengthen heat

dissipation)

Full load temperature rise: 45℃

Operating frequency: 400khz
No-load current: 5V to 12V 15mA, 8.4V to 12V 7mA,12V to 24V 9mA,12V to 36V 18mA,24V to 48V 9mA,24V to 36V 6mA.
Load adjustment rate: ±0.5%
Voltage adjustment rate: ±0.5%
Dynamic response speed: 5% 200uS
Enable control port: Yes, high level 1.4 v-VIN (ON), low level 0-0.8V (OFF), default high level
Short circuit protection: none (please install a fuse or protection circuit in the input)
Input backconnect protection: None, please match our backconnect protection plate or in the input series diode.
Installation method: It can be fixed with screws (fixing hole 3 mm), 2 fixing holes
Wiring mode: welding, adding pins can be directly welded on the PCB