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### GREATZT Boost Buck DC-DC Adjustable Step Up Down Converter XL6009 Power Supply Module 20W 5-32V to 1.2-35V

Prix : **US \$2.21** / piece

Color: XL6009 With display

Garanties du vendeur: envoyé en 5 jours ouvrables

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#### Détails de l'article

#### Détails de l'article

Brand Name:GREATZT

Condition:New

Model Number:XL6009

Package:SMD

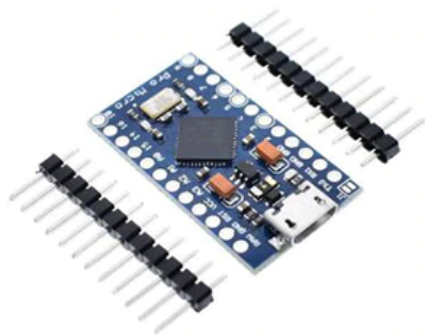
Origin:CN(Origin)

Type:Logic ICs

Application:Computer

is\_customized:Yes

#### Description de l'article



TZZT Pro Micro ATmega32U4 5V 16MHz Replace ATmega328 For Arduino Pro Mini Wit  
h 2 Row Pin Header For Leonardo Mini Usb Interface

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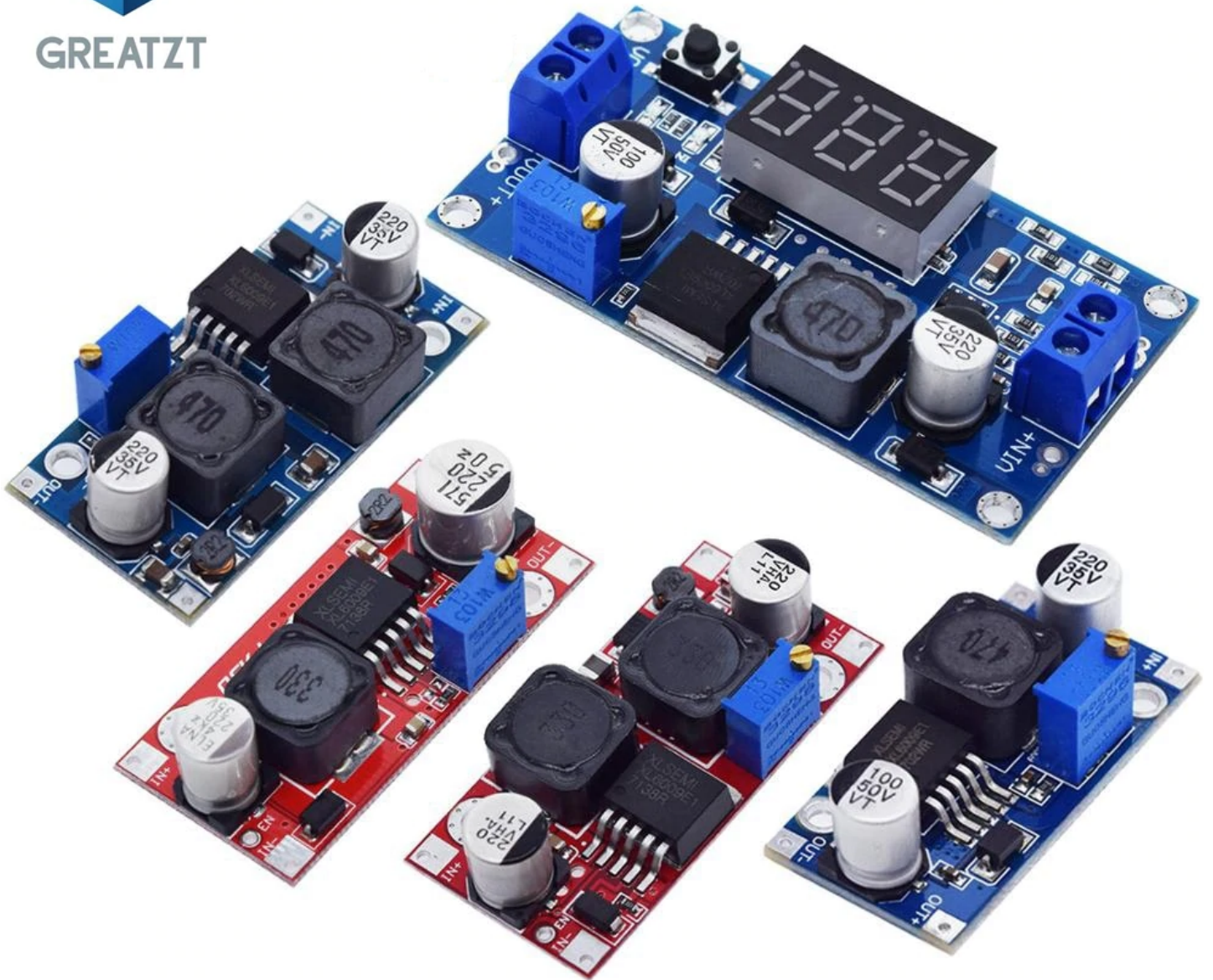
Quantity:

1 3276 pieces available

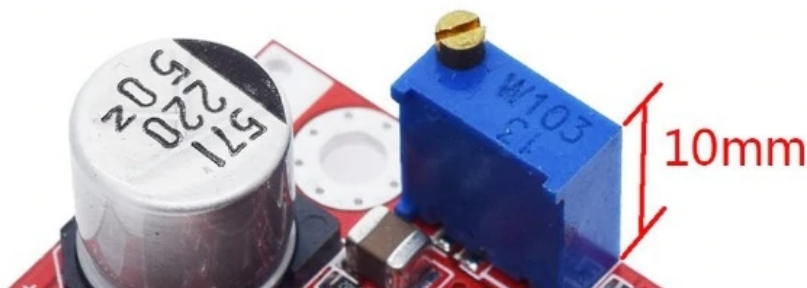
Shipping: US \$0.22 to Australia via Yanwen Economic Air Mail

Estimated Delivery: 30-50 days

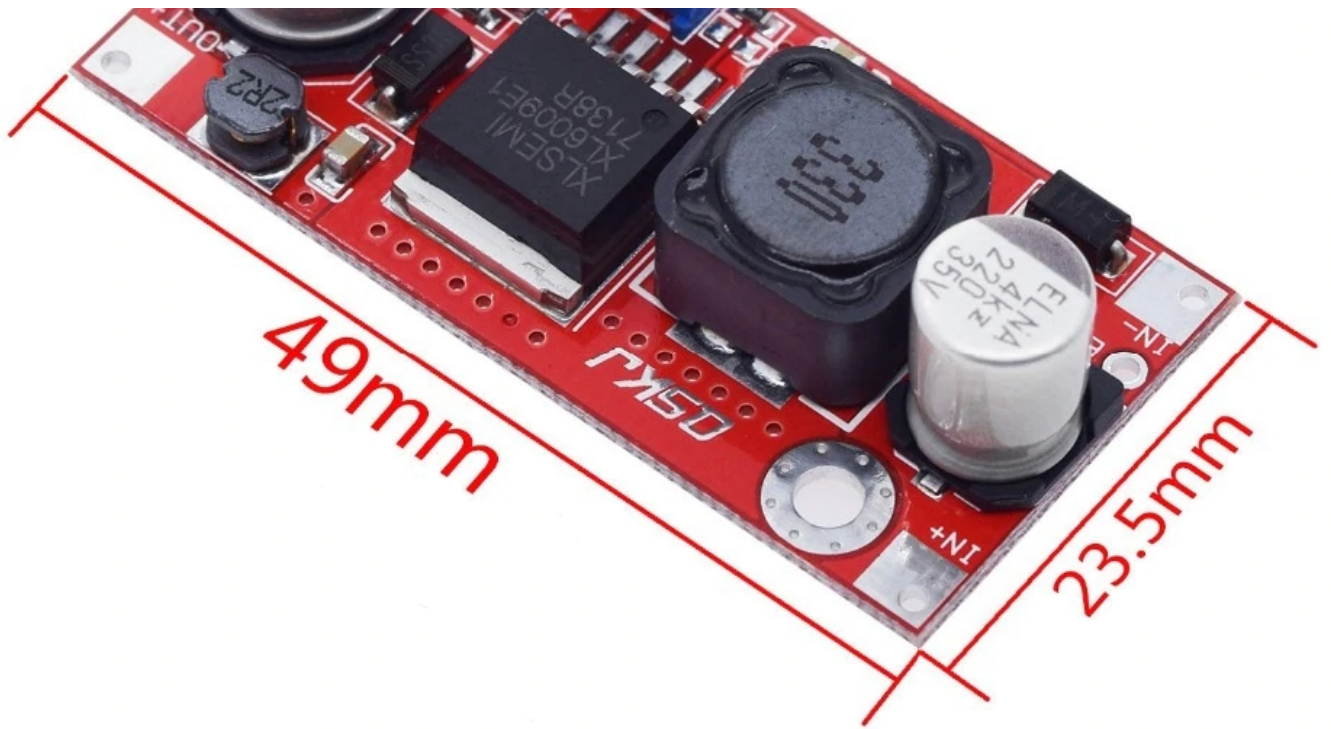


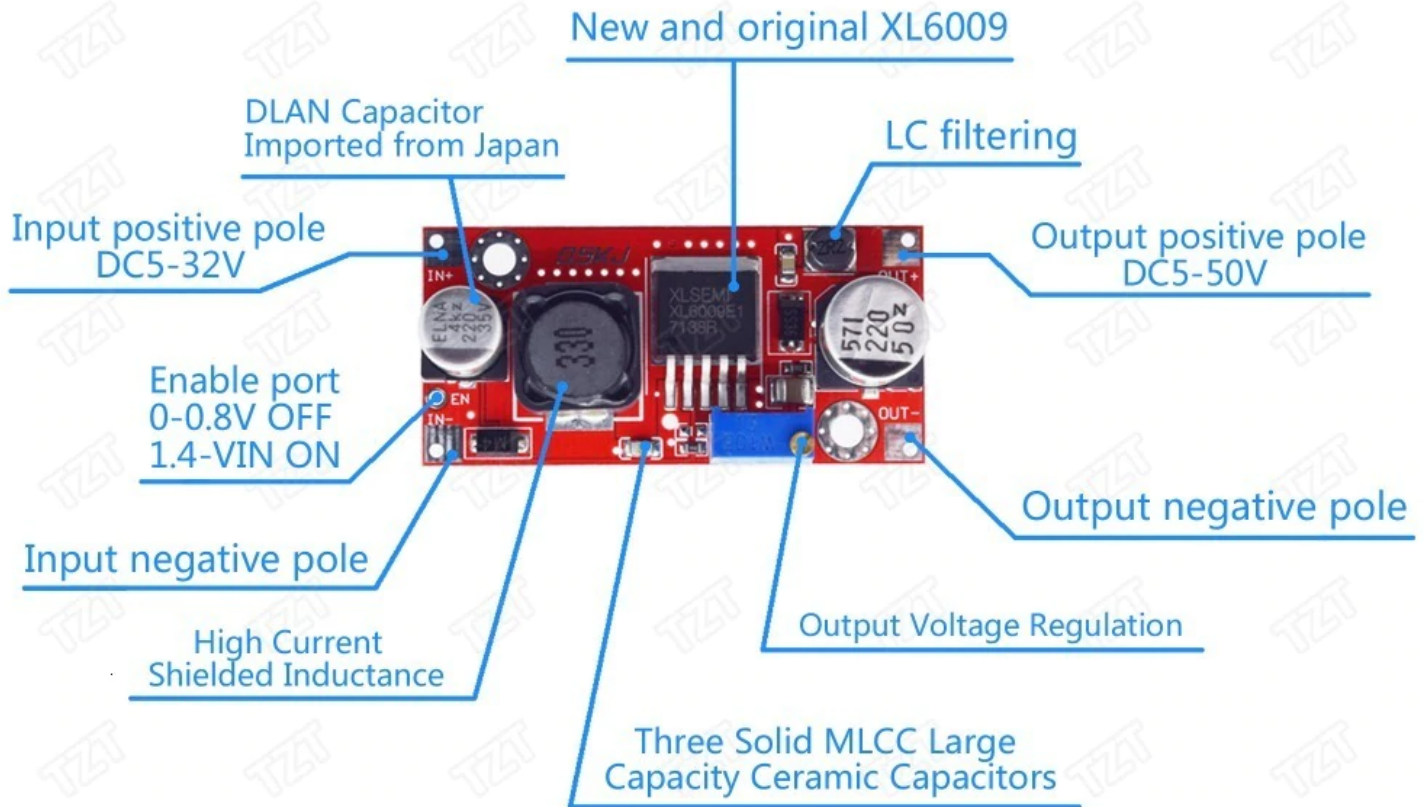


**XL6009**









## Module parameter

Model specification	XL6009 DC-DC Adjustable power boost module
Module properties	Non-Isolated Boost Module (BOOST)
Input voltage	5V-32V
Output voltage	Continuously adjustable (5V-50V)
Input current	4A (MAX)
Output current	2.5A (MAX)

Output power	Natural cooling 15W,Heat sink 25W (MAX) Actual power (Maximum output power=Input voltage*Conversion efficiency*4A)
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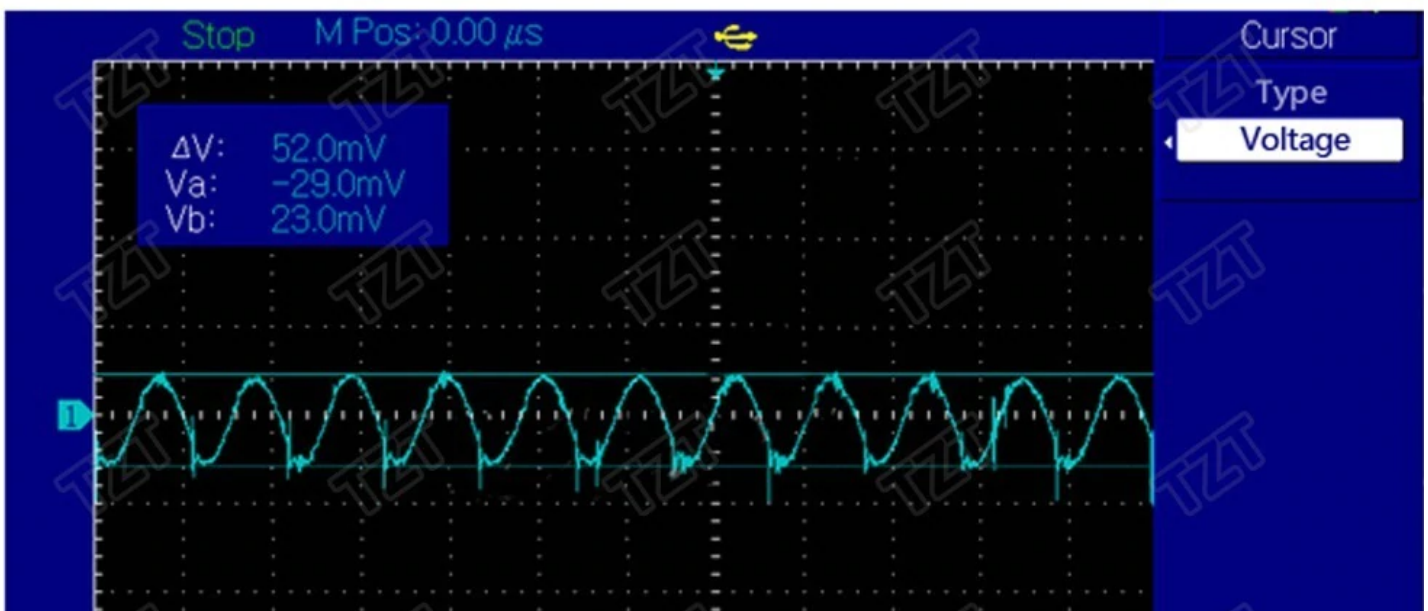
## Conversion efficiency

Efficiency of Measured Common Voltage and Current  
(The following is for reference only)

	Input voltage (V)	Input current (A)	Output voltage (V)	Output current (A)	Conversion efficiency
1	5.083	0.531	12.012	0.200	89.01%
2	5.055	1.361	12.006	0.500	87.25%
3	5.011	2.990	11.983	1.000	79.98%
4	8.413	0.316	12.021	0.200	90.43%
5	8.402	0.777	12.016	0.500	92.03%
6	8.378	1.585	12.004	1.000	90.40%
7	8.355	2.440	11.986	1.500	88.19%
8	8.332	3.345	11.953	2.000	85.78%
9	12.012	0.442	24.125	0.200	90.88%
10	11.993	1.093	24.125	0.500	92.02%
11	11.963	2.227	24.050	1.000	90.27%
12	11.985	1.352	36.320	0.400	89.66%
13	23.985	1.087	48.020	0.500	92.09%
14	23.992	0.799	35.850	0.500	93.51%

## Output ripple

Input 12V Output 24V 0.5A  
(For reference only)







Working temperature	Industrial-grade (-40°C ~ +85°C) (If the ambient temperature is over 40 degrees, please reduce the power or enhance the heat dissipation.)
Full load temperature rise	45°C
Working frequency	400khz
No-load current	18mA(Turn the 5v to 12v ),11mA(Turn the 8.4V to 12V), 15mA(Turn the 12V to 24V),22mA(Turn the 12V tp 36V), 14mA(Turn the 24V to 48V),11mA(Turn the 24V to 36V).
Load adjustment rate	±0.5%
Voltage adjustment rate	±0.5%
Dynamic response speed	5% 200uS
Enable control port	Yes,High level 1.4V-VIN(ON),Low level 0-0.8V(OFF) Default high level
Short circuit protection	NO(Please install a fuse or protective circuit in the input)
Installation mode	It can be screwed (Fixed hole 3mm),Two fixed holes
Connection mode	Welding.After adding pins, it can be directly welded to PCB.



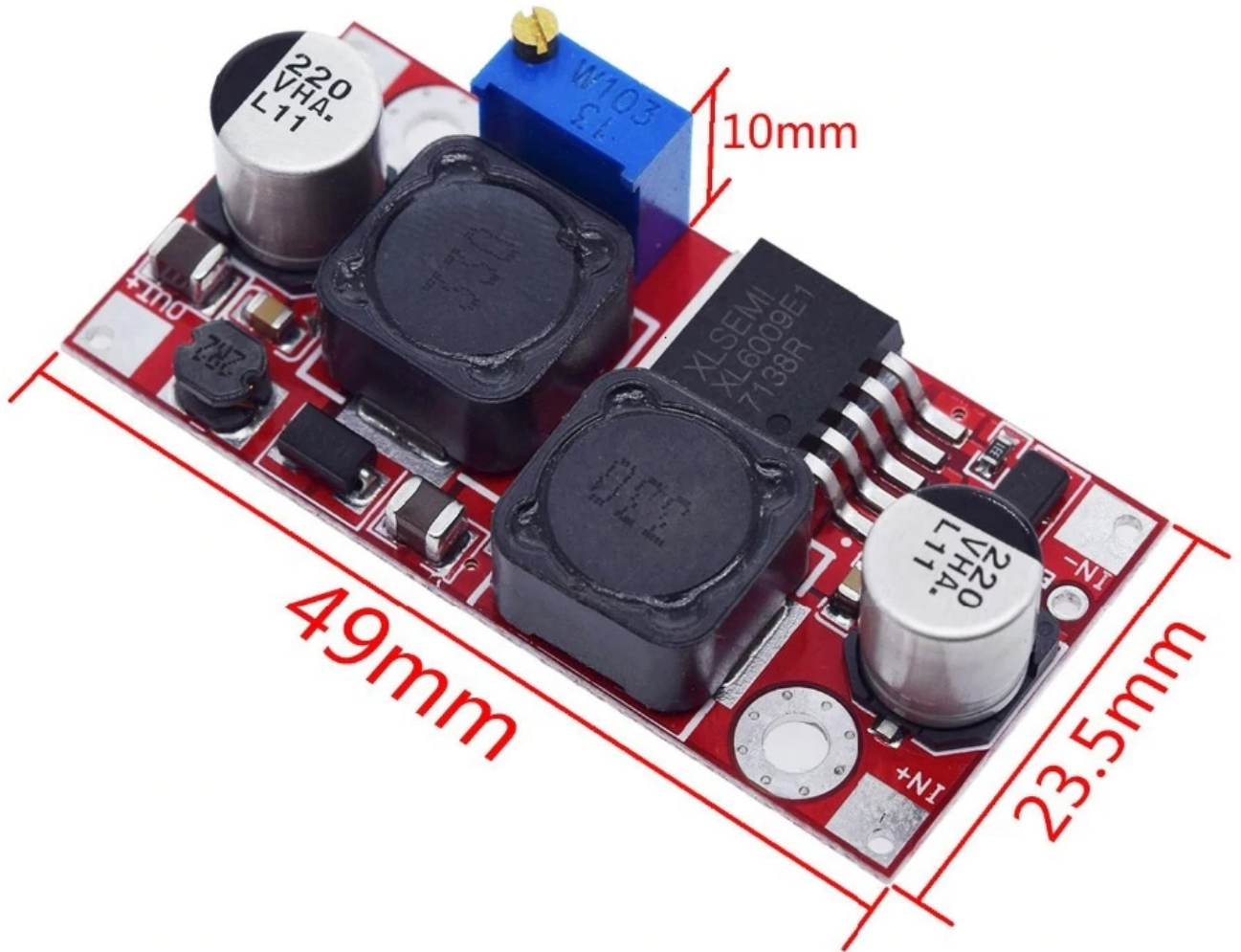


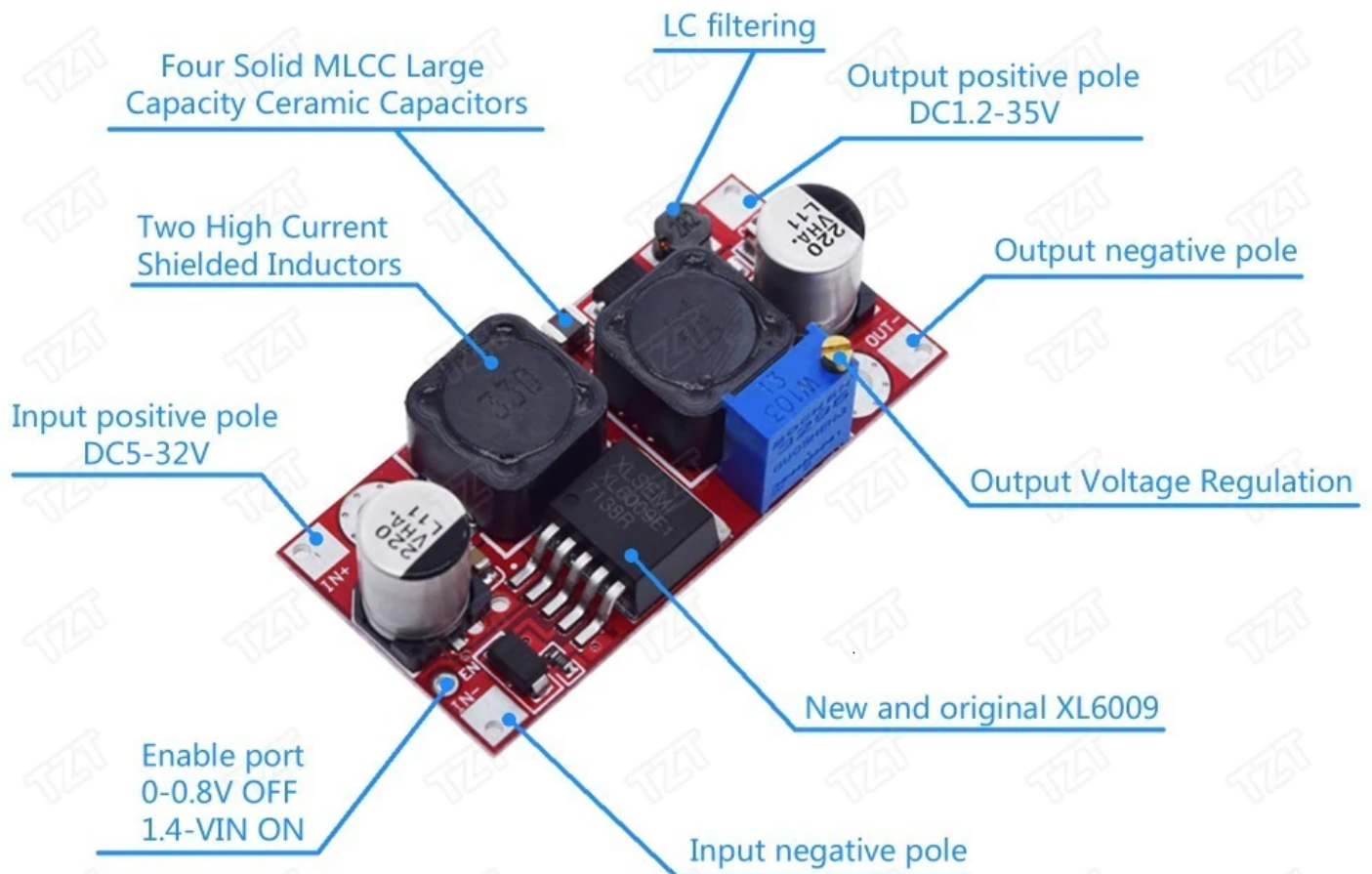
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# XL6009 Good





## Module parameter

Model specification	Red version of adjustable step-up and step-down regulated power supply module
Module properties	Non-isolated step-up and step-down module
Input voltage	5V-32V
Output voltage	Continuously adjustable (1.2V-35V)
Input current	4A (MAX)
Output current	1.5A (MAX)
	Natural cooling 20W Heat sink 25W (MAX) Actual power



Output power

(Maximum output power=Input voltage\*Conversion efficiency\*4A)

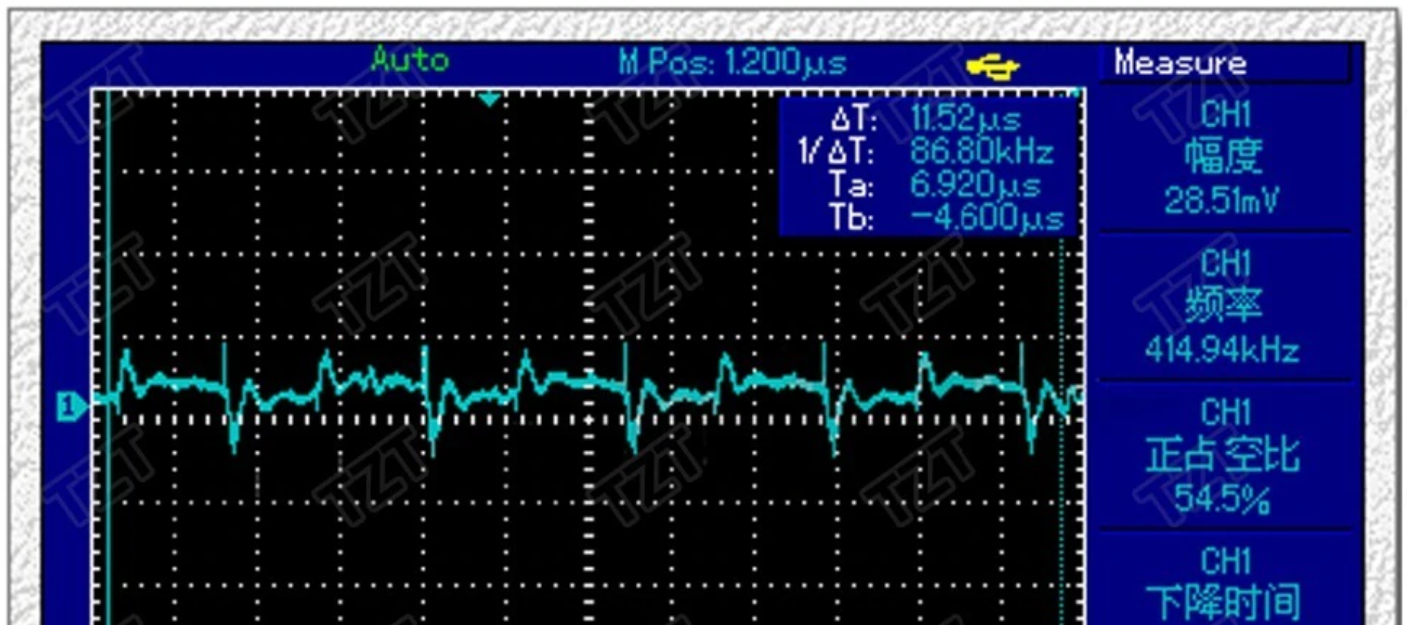
## Conversion efficiency

Efficiency of Measured Common Voltage and Current  
(The following is for reference only)

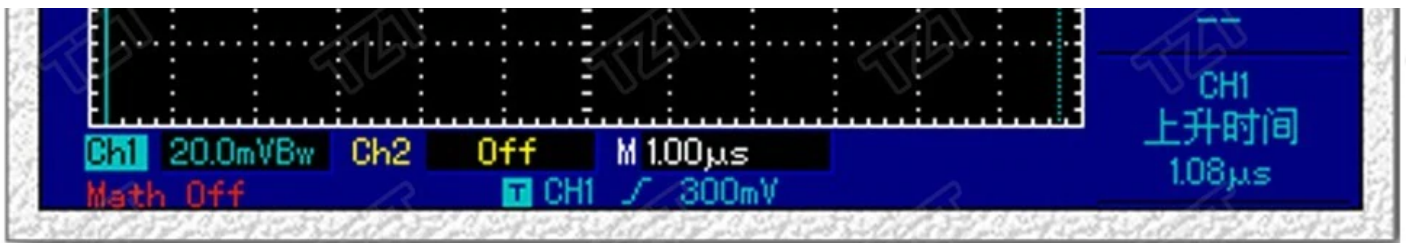
	Input voltage (V)	Input current (A)	Output voltage (V)	Output current (A)	Conversion efficiency
1	5.083	0.531	12.012	0.200	89.01%
2	5.055	1.361	12.006	0.500	87.25%
3	5.011	2.990	11.983	1.000	79.98%
4	8.413	0.316	12.021	0.200	90.43%
5	8.402	0.777	12.016	0.500	92.03%
6	8.378	1.585	12.004	1.000	90.40%
7	8.355	2.440	11.986	1.500	88.19%
8	8.332	3.345	11.953	2.000	85.78%
9	12.012	0.442	24.125	0.200	90.88%
10	11.993	1.093	24.125	0.500	92.02%
11	11.963	2.227	24.050	1.000	90.27%
12	11.985	1.352	36.320	0.400	89.66%
13	23.985	1.087	48.020	0.500	92.09%
14	23.992	0.799	35.850	0.500	93.51%

## Output ripple

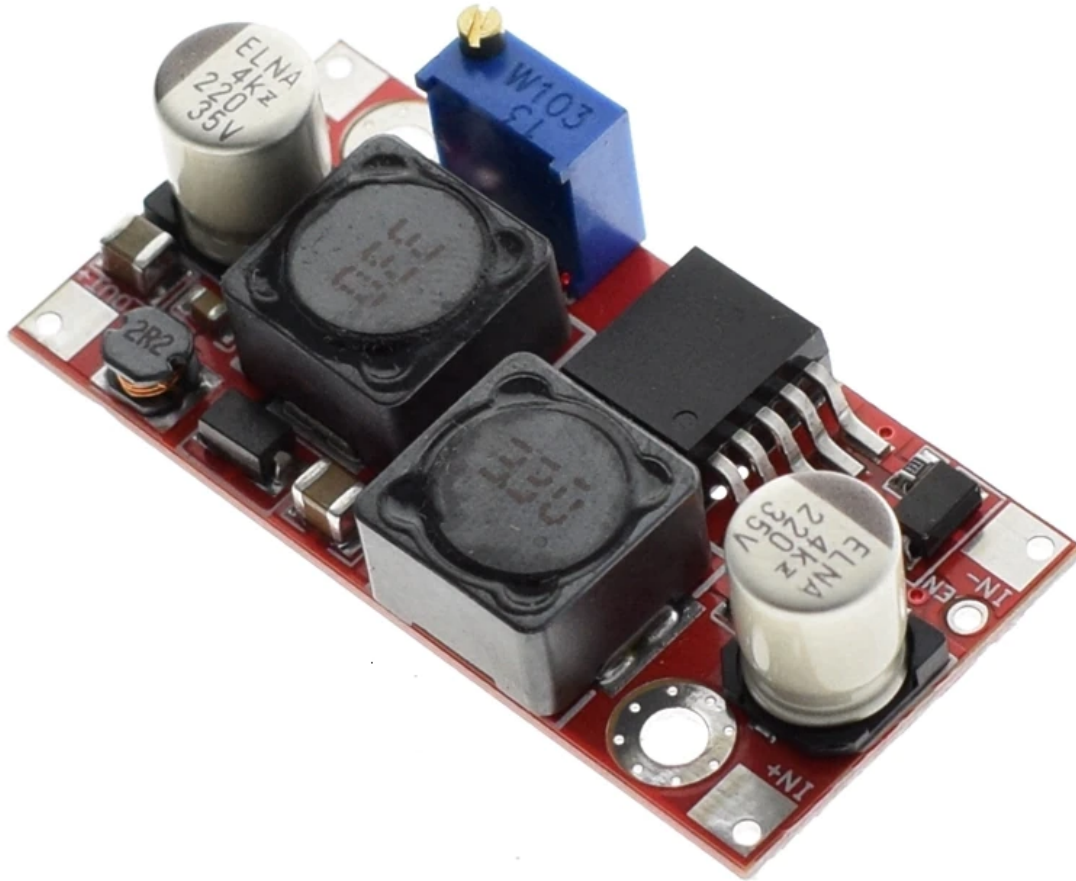
Input 12V Output 24V 0.5A Ripple 30mV 20M bandwidth  
(For reference only)



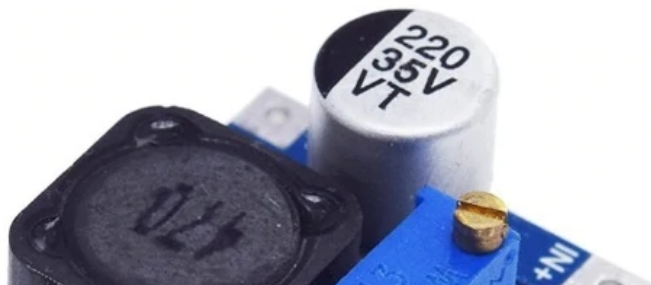


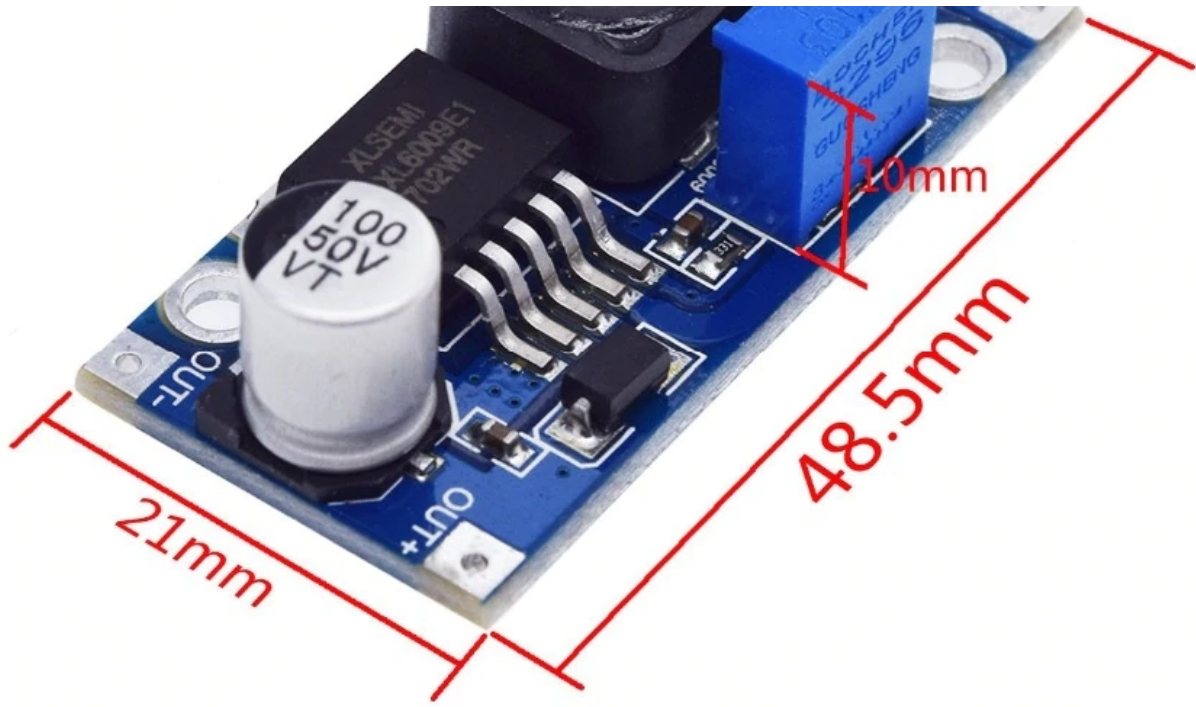


Working temperature	Industrial-grade (-40°C ~ +85°C) (If the ambient temperature is over 40 degrees, please reduce the power or enhance the heat dissipation.)
Full load temperature rise	45°C
Working frequency	400khz
No-load current	Typical 15mA(Turn the 5v to 12v)
Load adjustment rate	±0.5%
Voltage adjustment rate	±0.5%
Dynamic response speed	5% 200uS
Enable control port	Yes,High level 1.4V-VIN(ON),Low level 0-0.8V(OFF) Default high level
Short circuit protection	NO(Please install a fuse or protective circuit in the input)
Installation mode	It can be screwed (Fixed hole 3mm),Two fixed holes
Connection mode	Welding.After adding pins, it can be directly welded to PCB.



**XL6009 Blue**





# Module parameter

Model specification	XL6009 DC-DC Module of Boost Regulating Power Supply
Module properties	Non-isolated boost
Rectification mode	Asynchronous rectification
Input range	3V-32V
Output range	5V-35V
Input current	4A(max),No load 18mA(5V input,8V output,No-load less than 18 mA. The higher the voltage, the greater the no-load current.)
Conversion efficiency	Output ripple < 94%(The greater the pressure difference, the lower the efficiency.)
Switching frequency	400KHz
Output ripple	50mV(The higher the voltage, the greater the current and the greater the ripple.)
Load adjustment rate	±0.5%
Voltage adjustment rate	0.50%
Working temperature	40°C ~ 85°C



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## XL6009 Blue

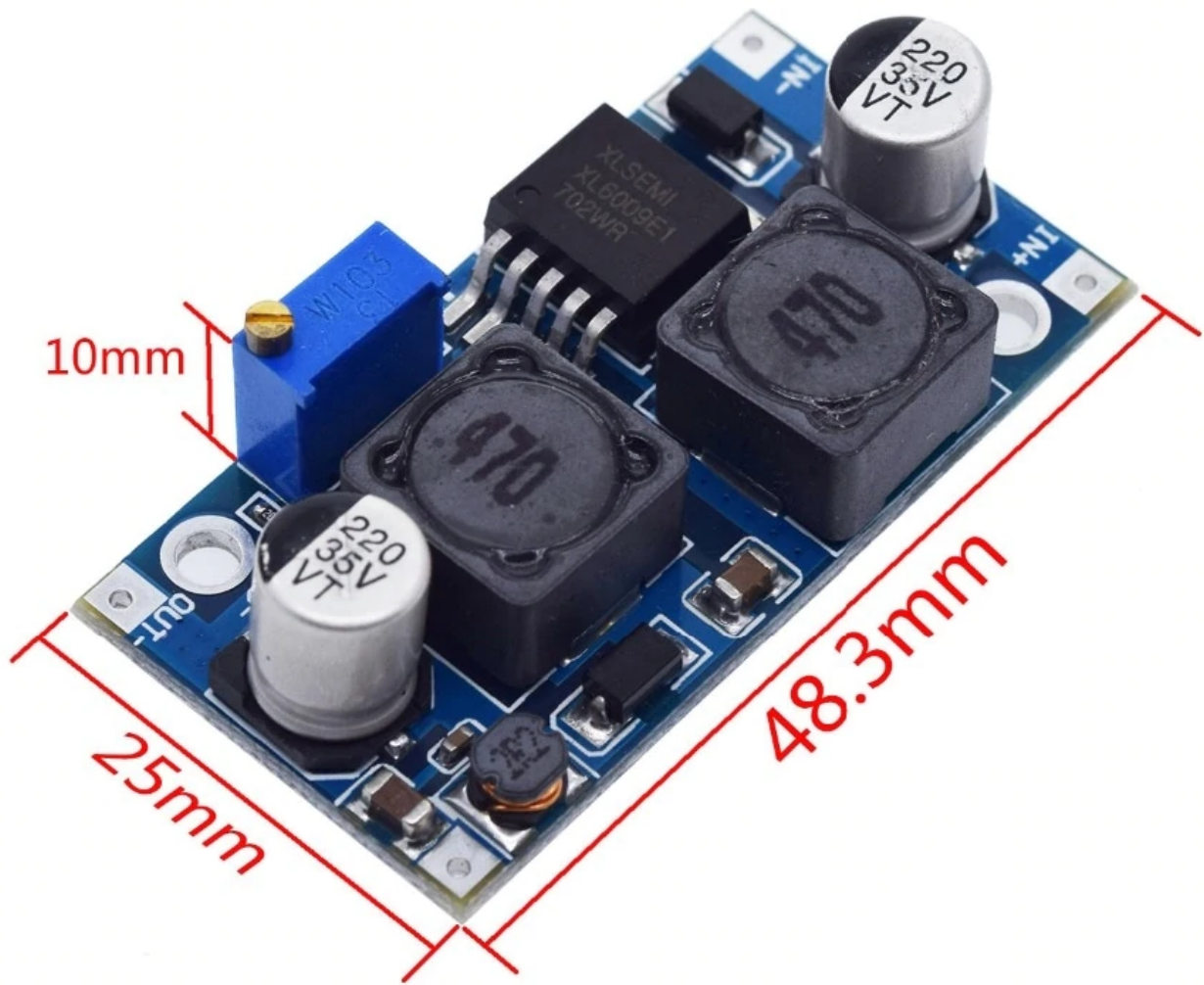






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# XL6009 Blue Good





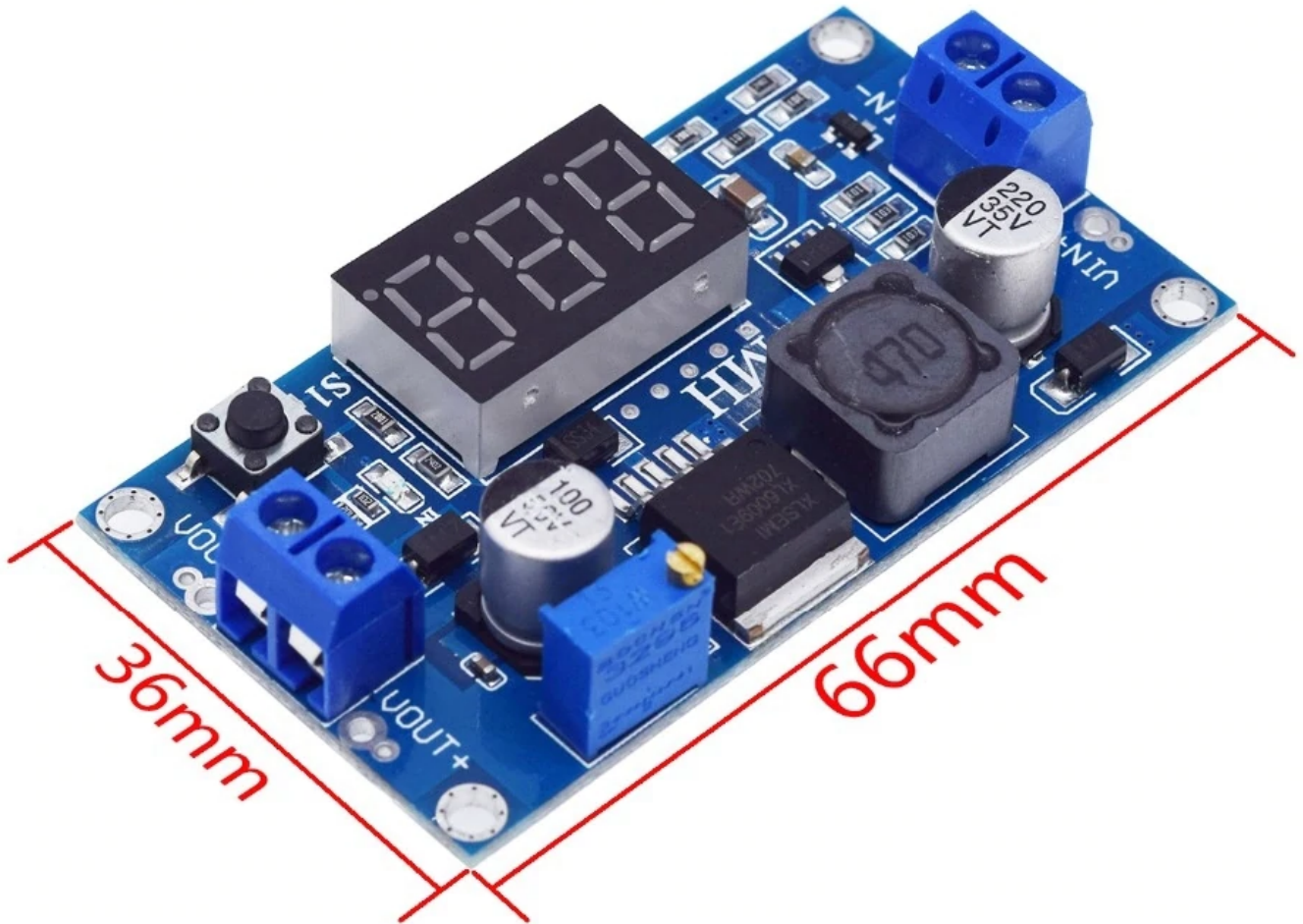
# Module parameter

Model specification	XL6009 DC-DC Wide voltage Autom
Input voltage	5V-32V
Output voltage	1.25V-35
Module properties	Non-isolated
Rectification mode	Asynchronous re
Input range	5V-32V
Output range	1.25V-35
Input current	4A(max),No load 18mA(5V input,8V o The higher the voltage, the great
Conversion efficiency	Output ripple < 94%(The greater the lower the ef
Switching frequency	400KHz
Output ripple	50mV(The higher the voltage, and the greater t
Load adjustment rate	±0.5%
Voltage adjustment rate	±0.5%
Working temperature	-40°C ~ +8





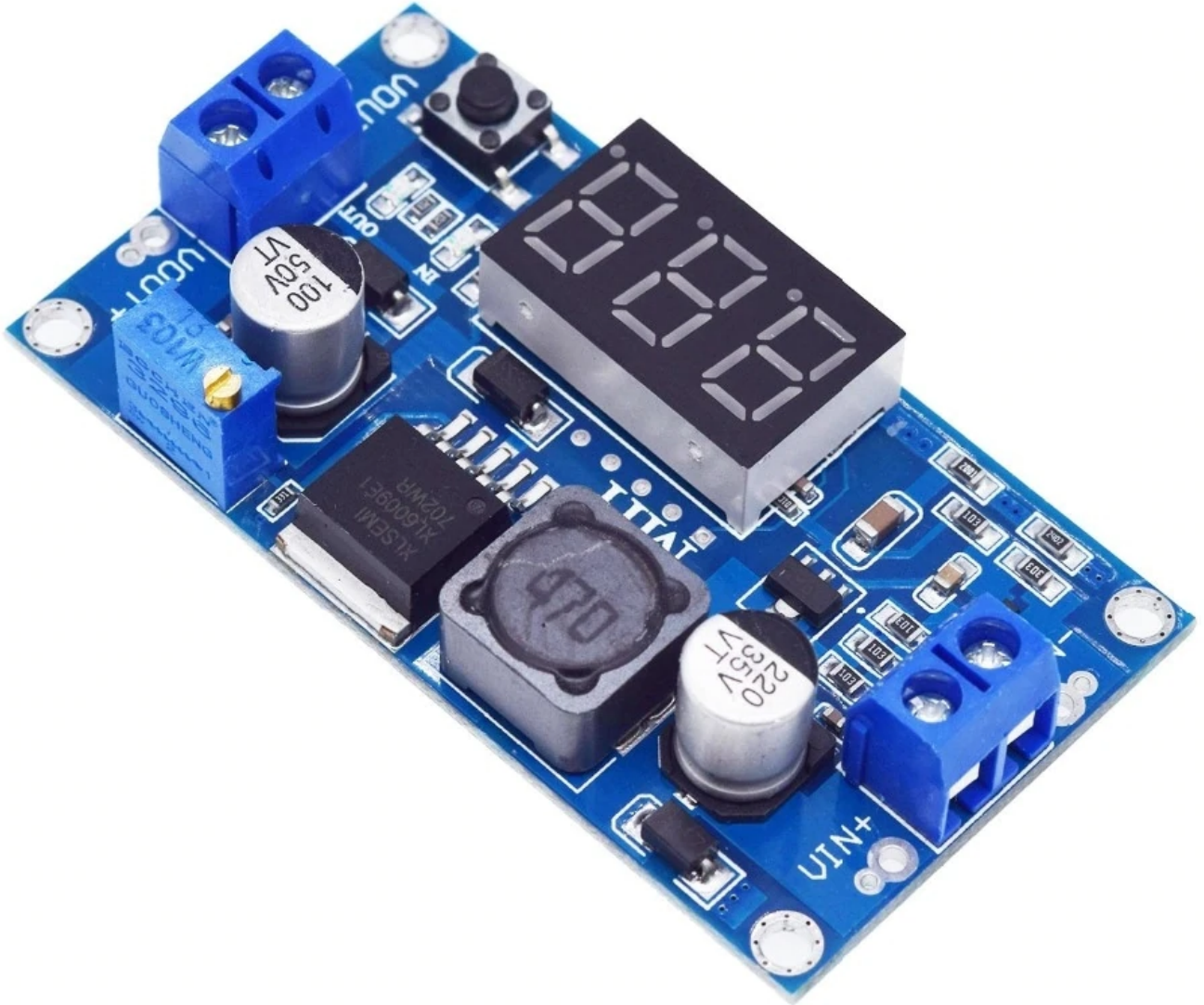
# XL6009 Display

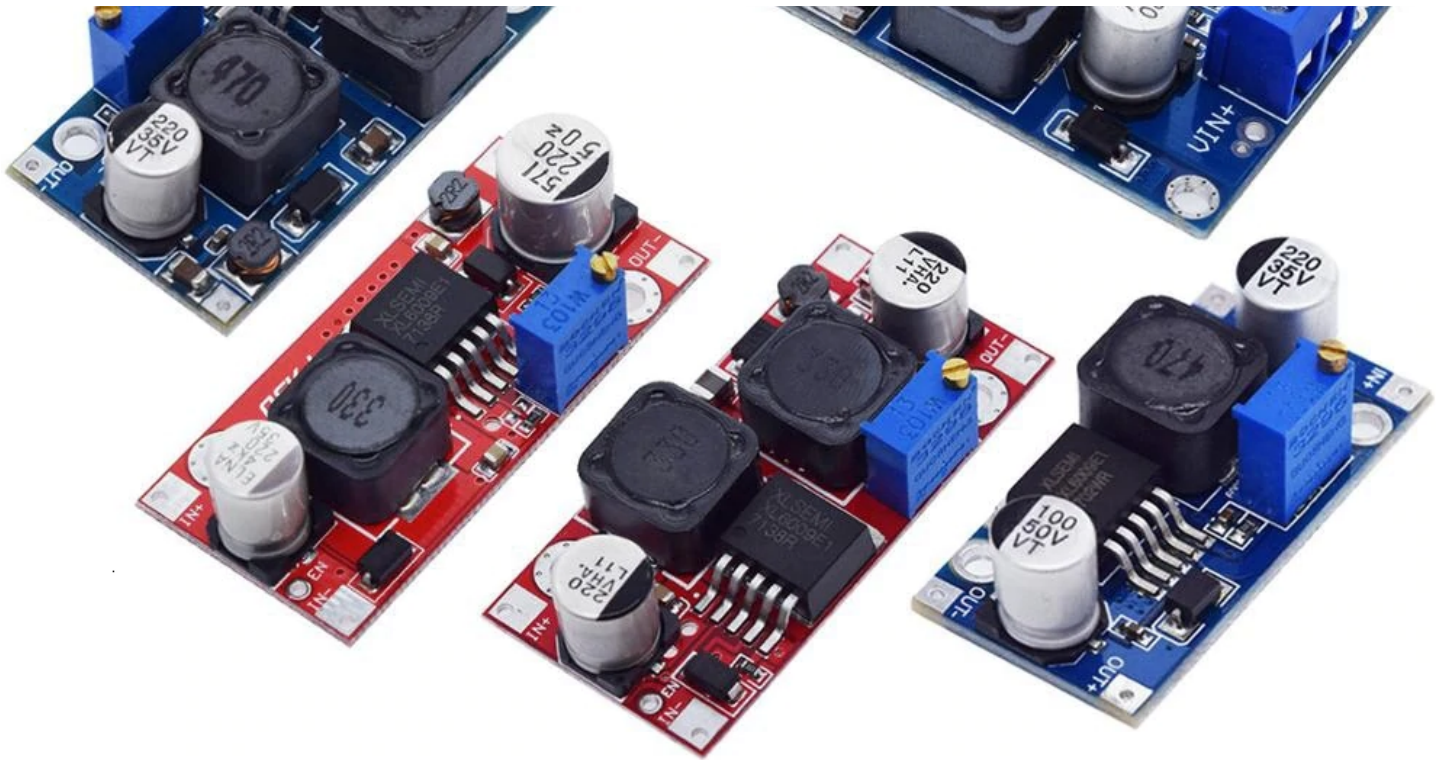




# Module parameter

Model specification	XL6009 Boost adjustable voltage regulator module with display
Module properties	Non-isolated boost
Rectification mode	Asynchronous rectification
Input current	4A(max),No load 18mA(5V input,8V output,No-load less than 18 mA. The higher the voltage, the greater the no-load current.)
Conversion efficiency	Output ripple < 94%(The greater the pressure difference, the lower the efficiency.)
Switching frequency	400KHz
Output ripple	50mV(The higher the voltage, the greater the current and the greater the ripple.)
Load adjustment rate	±0.5%
Voltage adjustment rate	±0.5%
Working temperature	-40°C ~ +85°C





### Détails de l'emballage

Type d'unité :piece

Poids du colis :0.01kg

Dimensions du colis :1cm x 1cm x 1cm

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