

Typical Performance

FEATURES

- Wide Input voltage range
- Low ripple
- 0~+/-1200V Continuously adjustable output voltage
- External DC 0~5V/2.5V can adjust and control output voltage
- With +5V/2.5V reference source, external potentiometer can adjust and control the output voltage
- Metal case
- PCB mount
- Size:25.4\*25.4\*10.16mm(L\*W\*H)
- Weight: 16g



Technical parameter

Input voltage(Vdc)	5V(4.5~7V),12V(11~16V),24V(21~28V)
Output voltage(Vdc)	0~+/-200V,0~+/-300V,0~+/-400V,0~+/-500V,0~+/-600V,0~+/-800V,0~+/-1000V,0~+/-1200V
Output current	0.5mA~1mA
Output ripple	≤10mVp-p~50mVp-p(full input,full load)
Load adjust rate	≤0.1%(Input voltage is within the nominal range,output load 0%~100%)
Output stability	≤0.5%(Input voltage is within the nominal range,output load 0%~100%)
Output voltage regulation mode	Voltage regulation, potentiometer regulation
Reference voltage output	+5Vdc (Vin=5,the value is +2.5V)
Protect	Short circuit protect
Working temperature	-20~+65℃
Storage temperature	-50~+95℃
Temperature stability	≤40PPM℃
Temperature humidity	20%~90%RH

Under voltage protect

Product Program

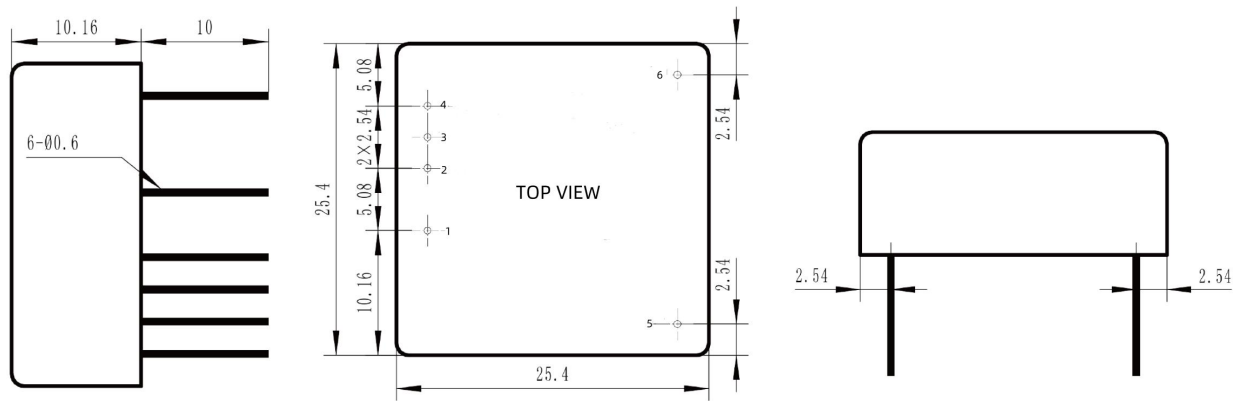
PART #	Input voltage	Output voltage / Ripple/Current			
		Vout	Ripple	Output	Input current

					No load	Full load	
LHC-05S200P	5V (4.5~7V)	0~+200V	≤10mV	0~1mA	≤50mA	≤200mA	
LHC-05S200N		0~-200V	≤10mV	0~1mA	≤50mA	≤200mA	
LHC-05S300P		0~+300V	≤10mV	0~1mA	≤50mA	≤200mA	
LHC-05S300N		0~-300V	≤10mV	0~1mA	≤50mA	≤200mA	
LHC-05S400P		0~+400V	≤10mV	0~1mA	≤50mA	≤200mA	
LHC-05S400N		0~-400V	≤10mV	0~1mA	≤50mA	≤200mA	
LHC-05S500P		0~+500V	≤20mV	0~1mA	≤10mA	≤200mA	
LHC-05S500N		0~-500V	≤20mV	0~1mA	≤10mA	≤200mA	
LHC-05S600P		0~+600V	≤20mV	0~0.5mA	≤10mA	≤200mA	
LHC-05S600N		0~-600V	≤20mV	0~0.5mA	≤10mA	≤200mA	
LHC-05S800P		0~+800V	≤30mV	0~0.5mA	≤5mA	≤40mA	
LHC-05S800N		0~-800V	≤30mV	0~0.5mA	≤5mA	≤40mA	
LHC-05S1000P		0~+1000V	≤40mV	0~1mA	≤5mA	≤40mA	
LHC-05S1000N		0~-1000V	≤40mV	0~1mA	≤5mA	≤40mA	
LHC-05S1200P		0~+1200V	≤50mV	0~0.5mA	≤5mA	≤40mA	
LHC-05S1200N		0~-1200V	≤50mV	0~0.5mA	≤5mA	≤40mA	
LHC-12S200P		12V(11~16V)	0~+200V	≤10mV	0~1mA	≤30mA	≤90mA
LHC-12S200N			0~-200V	≤10mV	0~1mA	≤30mA	≤90mA
LHC-12S300P	0~+300V		≤10mV	0~1mA	≤30mA	≤90mA	
LHC-12S300N	0~-300V		≤10mV	0~1mA	≤30mA	≤90mA	
LHC-12S400P	0~+400V		≤10mV	0~1mA	≤30mA	≤90mA	
LHC-12S400N	0~-400V		≤10mV	0~1mA	≤30mA	≤90mA	
LHC-12S500P	0~+500V		≤20mV	0~1mA	≤30mA	≤90mA	
LHC-12S500N	0~-500V		≤20mV	0~1mA	≤30mA	≤90mA	
LHC-12S600P	0~+600V		≤20mV	0~0.5mA	≤30mA	≤90mA	
LHC-12S600N	0~-600V		≤20mV	0~0.5mA	≤30mA	≤90mA	
LHC-12S800P	0~+800V		≤30mV	0~0.5mA	≤30mA	≤90mA	
LHC-12S800N	0~-800V		≤30mV	0~0.5mA	≤30mA	≤90mA	
LHC-12S1000P	0~+1000V		≤40mV	0~0.5mA	≤30mA	≤90mA	
LHC-12S1000N	0~-1000V		≤40mV	0~0.5mA	≤30mA	≤90mA	
LHC-12S1200P	0~+1200V		≤50mV	0~0.5mA	≤30mA	≤90mA	

LHC-12S1200N		0~-1200V	≤50mV	0~0.5mA	≤30mA	≤90mA
LHC-24S200P	24V(21~28V)	0~+200V	≤10mV	0~1mA	≤10mA	≤50mA
LHC-24S200N		0~-200V	≤10mV	0~1mA	≤10mA	≤50mA
LHC-24S300P		0~+300V	≤10mV	0~1mA	≤10mA	≤50mA
LHC-24S300N		0~-300V	≤10mV	0~1mA	≤10mA	≤50mA
LHC-24S400P		0~+400V	≤10mV	0~1mA	≤10mA	≤50mA
LHC-24S400N		0~-400V	≤10mV	0~1mA	≤10mA	≤50mA
LHC-24S500P		0~+500V	≤20mV	0~1mA	≤10mA	≤50mA
LHC-24S500N		0~-500V	≤20mV	0~1mA	≤10mA	≤50mA
LHC-24S600P		0~+600V	≤20mV	0~0.5mA	≤10mA	≤50mA
LHC-24S600N		0~-600V	≤20mV	0~0.5mA	≤10mA	≤50mA
LHC-24S800P		0~+800V	≤30mV	0~0.5mA	≤10mA	≤50mA
LHC-24S800N		0~-800V	≤30mV	0~0.5mA	≤10mA	≤50mA
LHC-24S1000P		0~+1000V	≤40mV	0~0.5mA	≤10mA	≤50mA
LHC-24S1000N		0~-1000V	≤40mV	0~0.5mA	≤10mA	≤50mA
LHC-24S1200P		0~+1200V	≤50mV	0~0.5mA	≤10mA	≤50mA
LHC-24S1200N		0~-1200V	≤50mV	0~0.5mA	≤10mA	≤50mA

\*\*customized accepted ,pls contact sales for details\*\*

### Mechanical Dimension



UNIT:mm

Tolerance: ±0.5mm

### Pin Assignment

PIN	1	2	3	4	5	6						
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Single O/P	+Vin	-Vin	Vref	AJD	HV	GND						
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Remark:

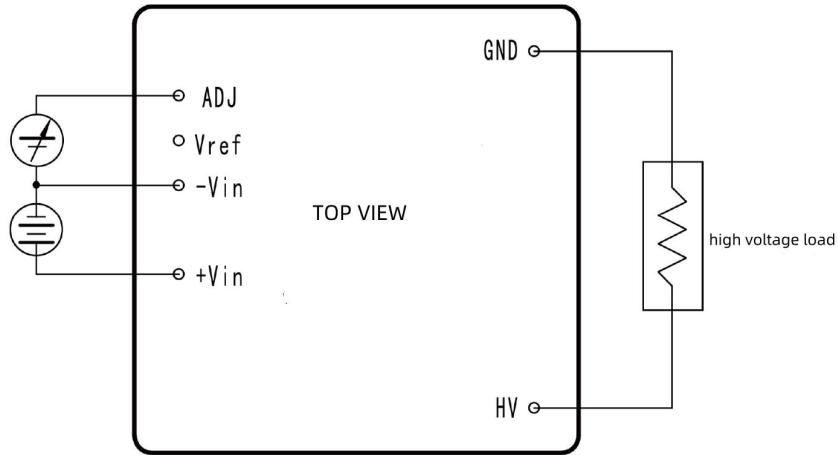
Vref: Potentiometer Voltage regulator reference output (+5V/+2.5V)


ADJ: Voltage regulator input positive terminal (0~5V/2.5V)

HV: Output high voltage

## Connection mode

### 1. Voltage regulation connect



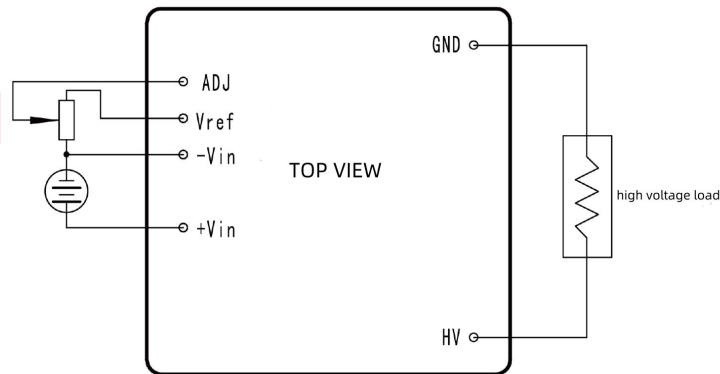
 :Input voltage:5V(4.5~7V),12V(11~16V,24V(21~28V)


 :External control power supply

The input voltage of 0 to 5VDC can be continuously adjusted to control the 0 to rated output high voltage (When the input voltage is 5V, the external control power supply is 0 to 2.5VDC, which may damage the power module.

Note: The stability of the external control voltage directly affects the stability and linearity of the output high voltage, so be sure to ensure the quality of the external control voltage signal.

### 2. Potentiometer voltage regulation connect



 :Input voltage:5V(4.5~7V),12V(11~16V,24V(21~28V)

Note:

(1)When the input voltage is 5V, the module's reference voltage output Vref is +2.5V, and the others are 5V  
(2)the external potentiometer can choose 5K,10K,20K potentiometer,10K multi-turn potentiometer is recommended

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