ECCO Electronics Technology Co.,ltd

LHD-XXSXXP(N) series

Typical Performance

F E A T U R E S

- Wide Input voltage range
- Low ripple ≤0.02%
- 0~+/-2000V 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
- Short circuit protect
- Metal case
- PCB mount
- Size:32*20*10mm(L*W*H)
- Weight：16g

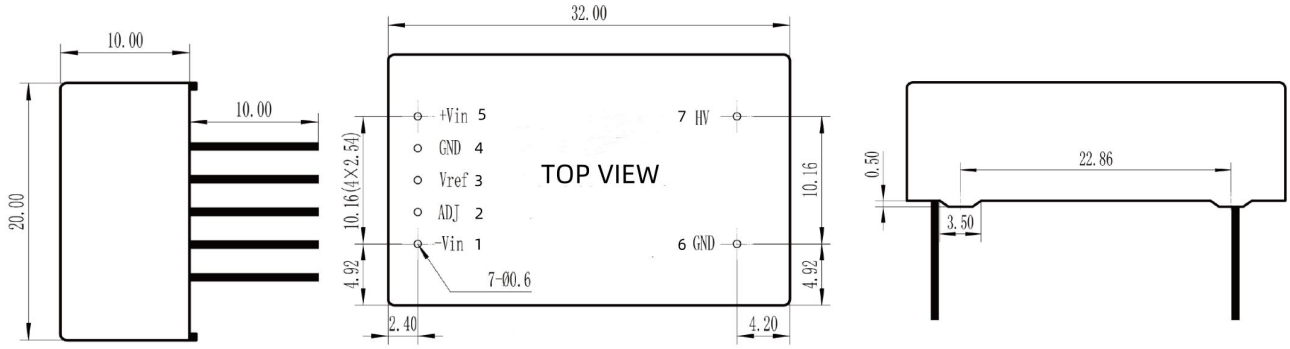
Technical parameter

Input voltage(Vdc)	5V(4.5~7V),12V(11~16V),24V(21~28V)
Output voltage(Vdc)	0~+/-1200V,0~+/-1500V,0~+/-1800V,0~+/-2000V
Ouput current	0.25mA~1mA
Ouput power	1.5W
Output ripple	≤0.02%mVp-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 20%~80%)
Temperature adjust rate	≤0.1%℃
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

Product Program

PART #	Input voltage range	Output voltage / Ripple/Current			
		Vout	Output current	Output power	Ripple
LHD-05S1200P	5V（4.5~7V）	0~+1200V	0~1mA	1.2W	≤200mV
LHD-05S1200N		0~-1200V	0~1mA	1.2W	≤200mV
LHD-05S1500P		0~+1500V	0~1mA	1.5W	≤300mV
LHD-05S1500N		0~-1500V	0~1mA	1.5W	≤300mV
LHD-05S1800P		0~+1800V	0~0.5mA	0.9W	≤350mV
LHD-05S1800N		0~-1800V	0~0.5mA	0.9W	≤350mV
LHD-05S2000P		0~+2000V	0~0.25W	0.5W	≤400mV
LHD-05S2000N		0~-2000V	0~0.25W	0.5W	≤400mV
LHD-12S1200P	12V(11~16V)	0~+1200V	0~1mA	1.2W	≤200mV
LHD-12S1200N		0~-1200V	0~1mA	1.2W	≤200mV
LHD-12S1500P		0~+1500V	0~1mA	1.5W	≤300mV
LHD-12S1500N		0~-1500V	0~1mA	1.5W	≤300mV
LHD-12S1800P		0~+1800V	0~0.5mA	0.9W	≤350mV
LHD-12S1800N		0~-1800V	0~0.5mA	0.9W	≤350mV
LHD-12S2000P		0~+2000V	0~0.25W	0.5W	≤400mV
LHD-24S2000N		0~-2000V	0~0.25W	0.5W	≤400mV
LHD-24S1200P	24V(21~28V)	0~+1200V	0~1mA	1.2W	≤200mV
LHD-24S1200N		0~-1200V	0~1mA	1.2W	≤200mV
LHD-24S1500P		0~+1500V	0~1mA	1.5W	≤300mV
LHD-24S1500N		0~-1500V	0~1mA	1.5W	≤300mV
LHD-24S1800P		0~+1800V	0~0.5mA	0.9W	≤350mV
LHD-24S1800N		0~-1800V	0~0.5mA	0.9W	≤350mV
LHD-24S2000P		0~+2000V	0~0.25W	0.5W	≤400mV
LHD-24S2000N		0~-2000V	0~0.25W	0.5W	≤400mV
customized accepted ,pls contact sales for details					

Mechanical Dimension



UNIT:mm

Tolerance：±0.5mm

Pin Assignment

PIN	1	2	3	4	5	6	7				
Single O/P	-Vin	ADJ	Vref	GND	+Vin	GND	HV				

Remark:

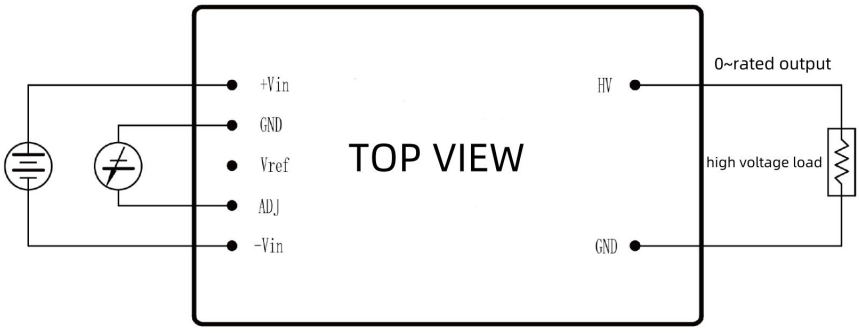
Vref：Potentiometer Voltage regulator reference output (+5V/+2.5V)

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

HV：Output high voltage

Connection mode

1. Voltage regulation connect

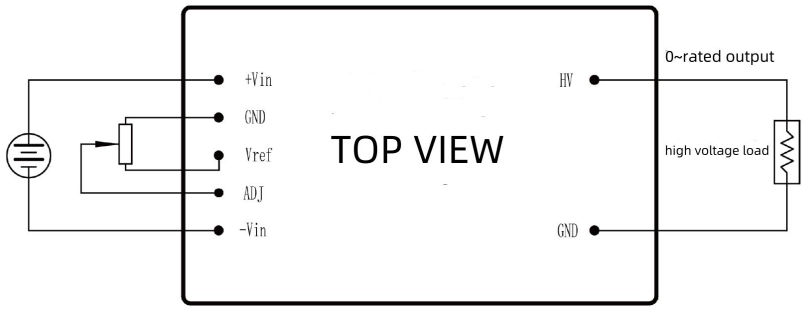


:Input voltage:5V(4.5~7V),12V(11~16V,24V(21~28V)

: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