# HDC-500DH Series Hall Current Sensor

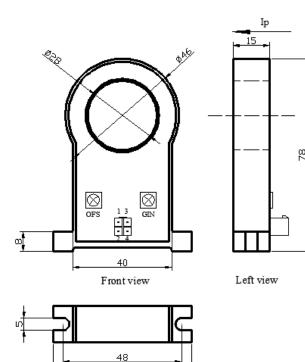
## Introduction

HDC-500DH Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

## △Electrical Parameters (Ta=25°C)

Туре					
Parameters	Symbols	HDC-50DH	HDC-200DH	HDC-300DH	HDC-500DH
Nominal measuring current	I <sub>PN</sub>	50A	200A	300A	500A
Linear range	I <sub>P</sub>	0~100A	0~400A	0~600A	0~1000A
Nominal output voltage	$V_{\rm SN}$	$\pm 4V \pm 0.04 V (R L = 10 K \Omega)$			
Zero offset voltage	Vo	$\leq \pm 0.04 V(I_{PN}=0)$			
Temperature drift of bridge offset	V <sub>OT</sub>	≤±1mV/℃			
Linear error	ξL	±1%			
Response time	Tr	≪5 µ S			
Supply voltage	Vc	±15V±5%			
Isolation voltage	$V_d$	2.5KV/50 or 60Hz/1min			
Power dissipation current	I <sub>C</sub>	±20mA			
Frequency bandwidth	f	DC~50KH <sub>Z</sub> (-3dB)			
Operating temperature	Та	-25°C~+85°C			
Storage temperature	Ts	-40 °C∼+90 °C			

# $\triangle$ Dimensions: (mm)



Bottom view

56

# NANJING ZHONGXU



## Features:

◆Use open-loop current transducer based on Hall effect

♦ Adopt UL94V-0-recognized insulated casing

- ♦ Small size ,light weight
- ◆Low power consumption

◆ Punching way has no insertion loss

♦ Flexible mounting

### **Applications:**

◆ AC Variable-frequency speed control system

- ◆ Uninterruptible power supply (UPS)
- ◆Electric vehicle
- ♦ Battery supply

Power supply for electric welding machine

◆Communication power supply

### Instructions for Use:

• Connect the wire of transducer in correct way as required.

◆Inputting measured current from punched core of transducer, the in-phase voltage signal can be obtained from output end by sampling.

◆ The arrow indicates positive current direction.

### ◆Connection and adjustment:

- ♦1: +Vc (+15V)
- ◆2: -Vc (-15V)
- ♦3: Output
- **♦**4: 0V
- ♦OFS: Offset

♦GIN: Gain

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