# HDC-2000FA Series Hall Current Sensor

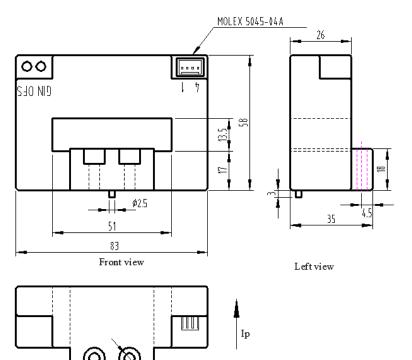
## Introduction

HDC-2000FA 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-600FA	HDC-800FA	HDC-1000FA	HDC-1500FA	HDC-2000FA
Nominal measuring current	I <sub>PN</sub>	600A	800A	1000A	1500A	2000A
Linear range	$I_P$	$0 \sim \pm 1200 \text{A}$	$0 \sim \pm 1600 \text{A}$	$0 \sim \pm 2000 \text{A}$	$0 \sim \pm 3000 \text{A}$	$0 \sim \pm 3000 \text{A}$
Nominal output voltage	$V_{SN}$	$\pm 4V \pm 0.04V$				
Zero offset voltage	Vo	$\leq \pm 0.04 V(I_{PN}=0)$				
Temperature drift of bridge offset	V <sub>OT</sub>	$\leq \pm 1 m V/°C$				
Linear error	ξL	±1%				
Response time	Tr	$\leqslant$ 7 $\mu$ S				
Supply voltage	Vc	±15V±5%				
Isolation voltage	$V_d$	6.0KV/50 or 60Hz/1min				
Power dissipation current	I <sub>C</sub>	±30mA				
Frequency bandwidth	f	DC~20KH <sub>Z</sub> (-3dB)				
Operating temperature	Та	-25 °C∼+85 °C				
Storage temperature	Ts	-40℃~+90℃				

# $\triangle$ Dimensions: (mm)



2xø4.5



#### Features:

◆Use open-loop current transducer based on Hall effect

♦ Adopt UL94V-0-recognized insulated casing

◆Busbar-mounted and

#### panel-mounted

♦ High insulation between primary side and secondary side

Punching way has no insertion loss

#### **Applications:**

- ◆Communication power supply
- ◆ Uninterruptible power supply (UPS)
- ♦ Switched-mode power supply

Power supply for electric welding machine

- ♦ Battery supply
- ♦ Circuitry
- ◆Railway system

◆ Variable-frequency speed control system

#### 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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Vertical view