

# **HZIE-C47** series

# **Current Transducer**

### 1. Brief introduction

HZIE-C47 current transducer uses Hall effect(open loop principle) to measure any kinds of electric current. The output signal could be small current or low voltage that can be accepted by electronic circuit. The primary input current and the output signal is highly electric isolated. This kind of transducer



has a compact size but with a 64 x 21mm window. It can be used in Power Utility, Telecom, Oil & Gas, welding machine and New energy fields.

- ★ AC/DC/Pulsed and Mixed current
- ★ Good overload capacity
- ★ Optimized response time **★** Good linearity circuit \* Wide frequency bandwidth

Low

power consumption

**2. Order information** (see right chart) Nominal Current: 1000 1200 1500 500 600 850

2000 2500Arms

Nominal output:  $\mathsf{O4:0} \pm \mathsf{4V}$  ,  $\mathsf{O5:0} \pm \mathsf{5V}$ 

Power supply: P2:±12-15Vdc

## HZIE-C47-xxxPx Ox **Nominal** Nominal Current(A): output: 500 Power supply: $04:0\pm4V$ 600 P2:±12-15Vdc $05:0\pm5V$ 850 1000 1200 1500 2000 2500

★ Galvanic isolation between primary and secondary

### 3. Eletrical data

lpn	Primary nominal current (Arms)	500 600 850 1000 1200 1500 2000 2500A
lp	Primary Current, measuring range(Arms)	150% x lpn
loc	Over load capacity	10000Arms
Vsn	Secondary output (Vrms)	4 or 5V
X	Accuracy (Ta =+25°C)	<b>≤1%</b>
EL	Linearity error	≤0.5%
Vc	Power supply voltage	Pn(±5%)
Vofs	Offset voltage (Ta =+25°C)	$\leqslant$ $\pm$ 20mV
Tr	Response time	≤ 5uS
di/dt	di/dt	> 50A/uS
f	Frequency bandwidth	DC-25KHz
Ic	Current consumption	30mA
RL	Load resistance (@IpN,@ ±15V)	>1ΚΩ

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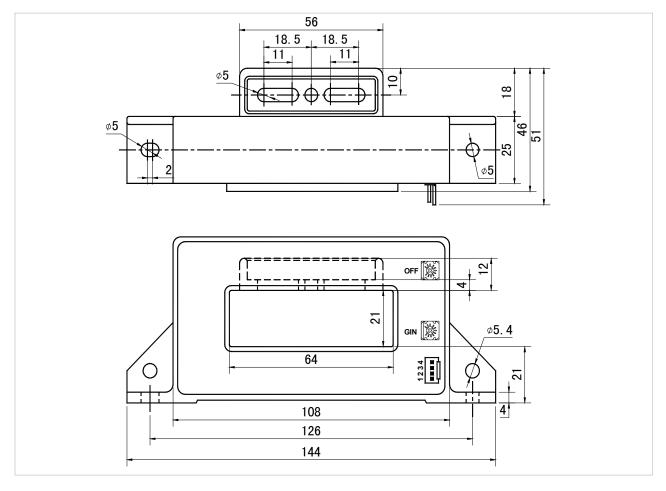


Vd	Isolation test(50HZ,1min)	5KV

# 4. General data:

Та	Ambient operating temperature	<b>-25 - +85</b> ℃
Ts	Ambient storage temperature	-40 - +85 ℃
W	Mass	500g
St	Standards	EN50178
На	Ambient operating humidity	0-90% RH
	Case material	According to UL94-V0

# 5. Dimensions



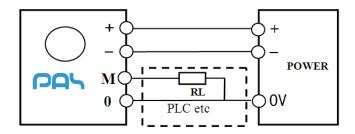
General tolerance	±1mm
Primary window size	64 x 21mm
Fastening	Bottom: 2 x Φ5mm

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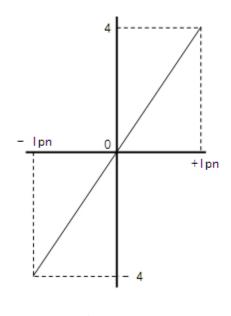
### 6. Connection



Pin	Definition
1	(+) supply voltage
2	(-) supply voltage
3	(M) measure
4	(0) supply GND

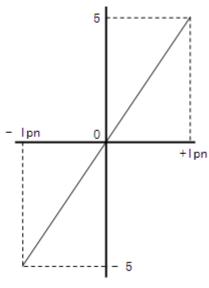
# 7. Output figure

Output in V



 $0\pm4V$  output

Output in V



0±5V output

# 8. Safety items



- 1. Only qualified people can operate with such electrical products.
- 2. Wrong connection may destroy the products.
- 3. ESD protection is necessary, please follow the correct process.
- 4. Do not use in the environment with conductive dust and corrosive gas.
- 5. The Potentiometers on the product are used by PAS internal, the user can not calibrate.
- 6. Strong vibration and very high temperature may damage the products.



1. After the installation, the bus bar may be connected to the high voltage equipment, please do not touch the exposed parts of the transducers to avoid electric shock!

Note: 1. Passion technology company reserves the right to modify the datasheets at any time without previous notifications. 2. Any question about the datasheet, please contact our TCS.