# DATA SHEET
# Hall Effect Voltage Sensor

| PN: CHV10LVA15D50 | IPN=10mA |
|---|---|

## Feature

- Closed- loop (compensated) voltage transducer
- Supply voltage: ±15~±24V
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.

## Advantages

- High accuracy
- Easy installation
- Low temperature drift
- High immunity to external interference
- Very good linearity
- Can be customized

## Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

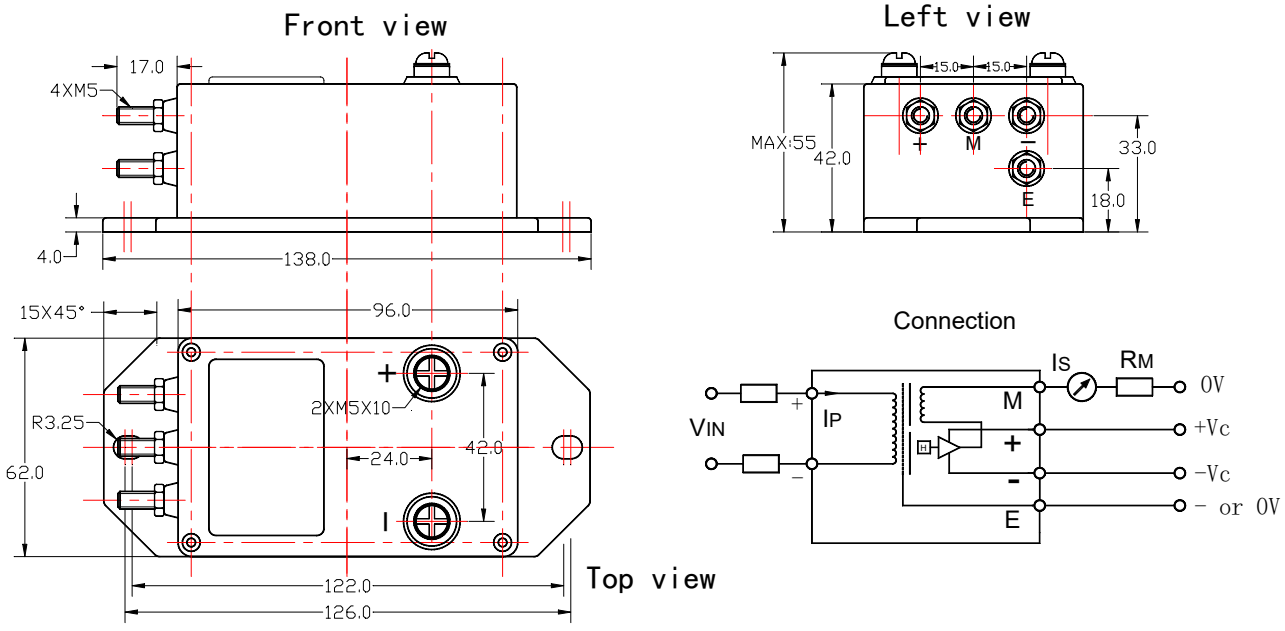
| Electrical data：（Ta=25℃，Vc= ±15VDC） | | |
|---|---|---|
| Model | CHV10LVA15D50 | |
| Rated input current(Ipn)(mA) | 10 | |
| Measure range(Ip)(mA) | 20 | |
| Turns ratio(Np/Ns) | 5000：1000 | |
| Primary resistor(Ω) | 1.5KΩ,6H | |
| Secondary resistor(Ω) | @ +85℃ | 55 |
| Rated output (Isn)(mA) | @Ip=±Ipn | ±50±0.5% |
| Resistor measured(Ω) | @ ±15V Ipn | 50（min）， 200（max） |
| | @ ±15V 2XIpn | 0（min）， 100（max） |
| | @ ±24V Ipn | 100（min）， 330（max） |
| | @ ±24V 2XIpn | 100（min）， 200（max） |
| Supply voltage(V) | ±15 ~±24(±10%) | |
| Offset current(mA) | @ Ip=0 | ≤±0.2 |
| Offset drift(mA) | @ -40～+85℃ | ≤±0.5 |
| Linearity(%FS) | @ Ip=0-±Ipn | ≤0.1 |

| | | |
|---|---|---|
| Response time(μS) | ⩽200 | |
| Galvanic isolation(KV) | @ 50HZ,AC,1min Between primary and secondary + shield | 12.0 |
| | @ 50HZ,AC,1min Between secondary and shield | 2.0 |

## General data:

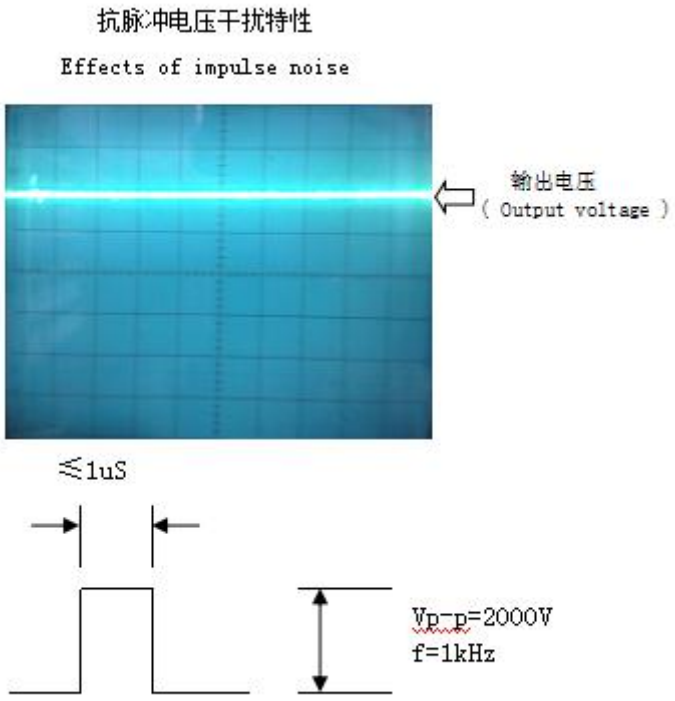
| Parameter | Value |
|---|---|
| Operating temperature TA(°C) | -40 ~ +85 |
| Storage temperature TS(°C ) | -40~ +125 |
| Mass M(g ) | 450 |
| Standards | IEC60950-1:2001 |
| | EN50178:1998 |
| | SJ20790-2000 |
| | EN60947-1:2004 |
| | UL94-V0. |

## Dimensions(mm):




Remarks:
1. All dimensions are in mm.
2. General tolerance ±1mm

## Characteristics chart:




## Remarks:

- 1.It is positive when the Ip is applied to the terminal “+”,Temperature of the primary conductor shou not exceed 100℃
- 2.When the voltage will be measured goes through a sensor, the current will be measured at the output en
- (Note: The false wiring may result in the damage of the sensor)
- 3. Custom design in the nominal input voltage and the output current available.

**WARNING : Incorrect wiring may cause damage to the sensor.**