

# DATA SHEET Hall Effect Voltage Sensor

P/N: CHFV3600DV15D50

 $V_{PN} = 3600V$ 

#### **Feature**

- It is a current mode voltage sensor, based on the principle of the based on fluxgate principle.
- Electrostatic shield between primary and secondary circuit
- It provides accurate electronic measurement of DC, AC or pulsed voltage.
- Supply voltage: ±15~±24 V

### **Advantages**

- High accuracy
- Wide frequency bandwidth
- Low temperature drift
- High immunity to external interference

## **Applications**

- Metrological verification and calibration
- Laboratory current measurement
- Instrumentation (e.g. power analyzer)
- Medical equipment (e.g. MRI)
- Battery pack detection
- Power control

- Very good linearity
- Optimized response time









**RoHS** 

Electrical data: (T <sub>A</sub> =25°C±5°C)					
Type Parameters	CHFV3600DV15D50				
Rated Input V <sub>PN</sub> (V)	3600				
Measuring Range V <sub>PM</sub> (V) 1Min/Hour	5500				
Current consumption I <sub>C</sub> (mA) I <sub>PM</sub> Range	Minimum	Standard	Maximum		
	±40	±90	±120		
Power Supply V <sub>C</sub>	±14.5	±15	±26.4		
Current change Input:Output K <sub>N</sub>	3600V/50mA				
Measuring Resistance( $\Omega$ ) $R_M$	0	60	100		



Cheemi Technology Co., Ltd

Tel: 025-85560520 E-mail: info@cheemi-tech.com www. cheemi-tech.com Add:3/F, Building 6, Jingang Science and Technology Innovation Park, No.1 Kechuang Road, Qixia District, Nanjing City, Jiangsu Province, China.

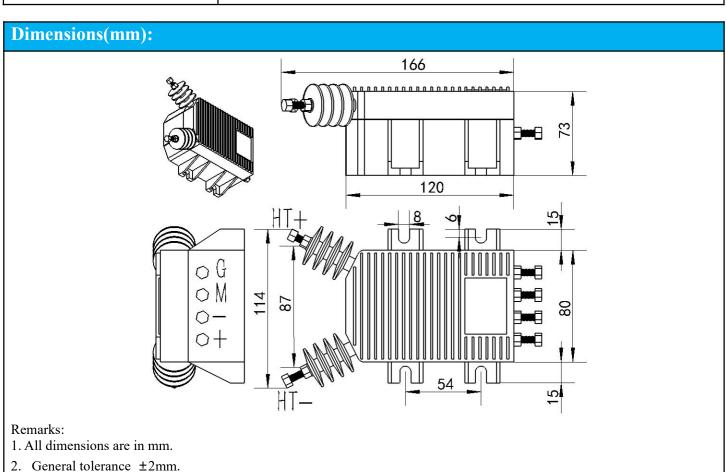
Co., Liu		
		3.6
		0.4
	1	3.6
	1	0.4
		0.5
	-	200
		10
		10
	-	20
	1	$\pm 0.050$
	-	±0.100
		50
		50
0		12.8

Insulation Coordination:					
Item	Symbol	Test condition	Value	Unit	
RMS voltage for AC insulation test	$V_{d}$	50Hz/1Min between primary and secondary	20	KV	
Impulse withstand voltage	$V_{\mathrm{w}}$	50us between primary and secondary	30	KV	
Clearance	$d_{\mathrm{CI}}$	Shortest distance through air between primary and ground	45	mm	
Creepage distance	$ m d_{CP}$	Shortest path along device body between primary and ground	140	mm	
Clearance	$d_{\mathrm{CI}}$	Shortest distance through air between secondary and ground	25	mm	
Creepage distance	$ m d_{CP}$	Shortest path along device body between secondary and ground	25	mm	



No.1 Kechuang Road, Qixia District, Nanjing City, Jiangsu Province, China.

General data:		
Parameter	Value	
Operating temperature TA(°C)	-40 ∼ +85	
Storage temperature TS(°C)	<i>-</i> 45∼ +85	
Mass M(g)	1000g±200g	
	IEC60950-1:2001	
Standards	EN50178:1998; EN50155:2021	
	SJ20790-2000	
	UL94-V0	
	EN60947-1:2004	



# **Characteristic Diagram**

Connector M5 Bolt



Cheemi Technology Co., Ltd

Tel: 025-85560520 E-mail: info@cheemi-tech.com www. cheemi-tech.com Add:3/F, Building 6, Jingang Science and Technology Innovation Park, No.1 Kechuang Road, Qixia District, Nanjing City, Jiangsu Province, China.

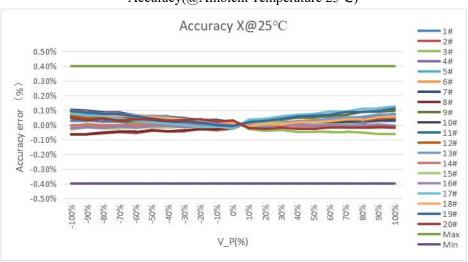
#### Offset Output Current(@Ambient Temperature 25°C)



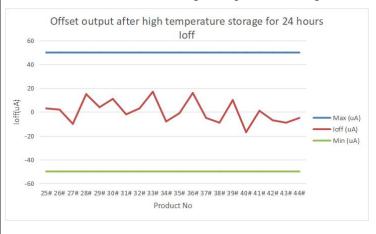
#### Rated Output Current(@Ambient Temperature 25°C)



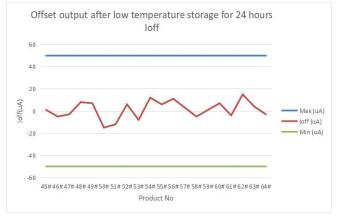
#### Accuracy@Ambient Temperature 25°C)



#### Offset Current After 24 Hours High Temperature Storage



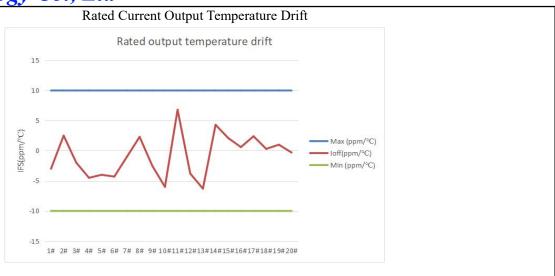
#### Offset Current After 24 Hours Low Temperature Storage





Cheemi Technology Co., Ltd
Tel: 025-85560520 E-mail: info@cheemi-tech.com www. cheemi-tech.com
Add:3/F, Building 6, Jingang Science and Technology Innovation Park,

No.1 Kechuang Road, Qixia District, Nanjing City, Jiangsu Province, China.



#### Remarks:

- Before using the product, please make sure to carefully read the user manual. When moving the product, please make sure to turn off the power first and unplug all the connecting cables that are connected to it. If any damage is found to the casing, firmware, power cord, connecting cable, or connected equipment, please immediately disconnect the device from the power supply.
- When the direction of the input current IP is consistent with the direction indicated by the arrow in the outline drawing, the output current IS is in the forward direction.
- Please try to locate the primary conductor at the center of the probe aperture as much as possible.
- > The through-hole is made of metal material, so the through-hole wire cannot be an exposed cable. The through-hole wire must be insulated.
- This module is a standard sensor, please contact us for special applications.
- We reserve the right to modify this sensor manual without prior notice.

WARNING: Incorrect wiring may cause damage to the sensor.

