



# DATA SHEET

## Hall Effect Voltage Sensor

**PN: CHV\_AV15D4**

**IPN=200~1000V**

### Feature

- Closed- loop (compensated) voltage transducer
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC  $\pm 12 \sim 15$  V

### Advantages

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

### Applications

- The application of induction cooker
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Inverter applications



RoHS



### Electrical data: (Ta=25°C, Vc= ±15VDC)

Parmeter \ Ref	CHV200 AV15D4	CHV400 AV15D4	CHV600 AV15D4	CHV800 AV15D4	CHV1000 AV15D4
Rated input voltage Vpn(V)	200	400	600	800	1000
Measuring range Vp(V)	0 ~ ±280	0 ~ ±360	0 ~ ±840	0 ~ ±1120	0 ~ ±1400
Turns ratio Np/NS (T)	1000	1000	1000	1000	1000
Secondary coil resistance RS (Ω)	60	60	60	60	60
Output voltage VO(V)	$\pm 4.0 * VP / VPN$				
Supply voltage VC(V)	( ±12 ~ ±15 ) ±5%				
Accuracy XG(%)	@IPN, T=25°C		< ±0.5		
Offset voltage VOE(mV)	@IP=0, T=25°C		< ±30		
Temperature variation of VOE VOT(mV/°C)	@IP=0, -40 ~ +85°C		< ±0.5		
Linearity error εr(%FS)	< 0.2				
Response time tra(μs)	@90% of IPN		< 40.0		
Power consumption IC(mA)	15+Is				
Insulation voltage Vd(KV)	@50/60Hz, 1min, AC		2.5		



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General data:	
Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	50
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):	
	<p>Connection</p>
<p>General tolerance</p>	
<p>General tolerance: &lt;math&gt;\pm 0.5\text{mm}&lt;/math&gt;                  size of Primary pin :                  DG301-5.0-03P ;                  Secondary pin:DG301-5.0-04P</p>	

Remarks:
<ul style="list-style-type: none"> <li>➤ When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.</li> <li>➤ Custom design is available for the different rated input current and the output voltage.</li> </ul>
<p><b>WARNING : Incorrect wiring may cause damage to the sensor.</b></p>

