



DATA SHEET

Hall Effect Voltage Sensor

PN: CHV_AC15D25

IPN=200~1000V

Feature

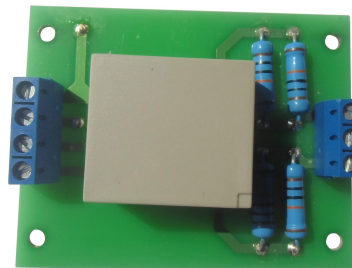
- Closed- loop (compensate) voltage transducer
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC $\pm 12 \sim 15$ V

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)

Parameter	Ref	CHV200 AC15D25	CHV400 AC15D25	CHV600 AC15D25	CHV800 AC15D25	CHV1000 AC15D25
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 current rms IS(mA)		±25*VP/VPN				
Inside resistance RM (Ω)		[(VC-3.0V)/ (IS*0.001)]-RS				
Supply voltage VC(V)		(±12 ~ ±15) ±5%				
Accuracy XG(%)		@IPN,T=25°C		< ±0.5		
Offset current IOE(mA)		@IP=0,T=25°C		< ±0.15		
Temperature variation of IOE IOT(mA/°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		



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 style="text-align: center;">Connection</p> <p style="text-align: center;">General tolerance</p> <p>General tolerance: <math>\pm 0.5\text{mm}</math> size of Primary pin : DG301-5.0-03P ; Secondary pin:DG301-5.0-04P</p>
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Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.

WARNING : Incorrect wiring may cause damage to the sensor.

