



DATA SHEET

Hall Effect Current Sensor

PN: CHB2000LFG15D400

I_{PN}=2000A**Feature**

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

Advantages

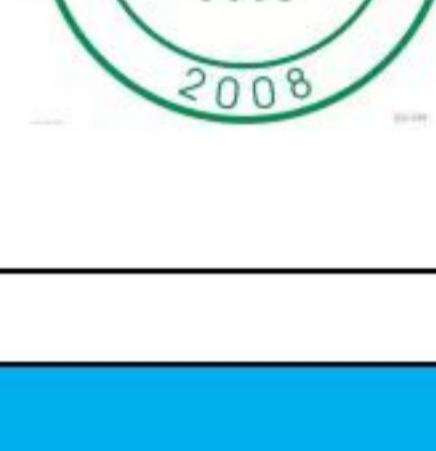
- High accuracy
- Easy installation
- Low temperature drift
- Optimized response time
- High immunity to external interference
- Very good linearity
- Can be customized

**Applications**

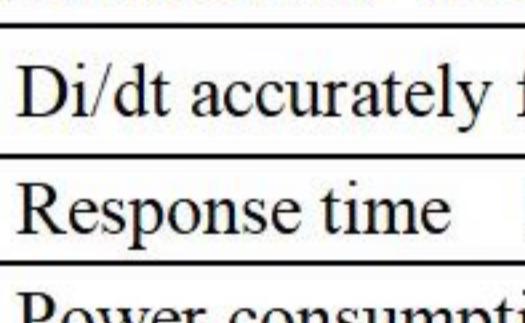
- The application of variable frequency electrical appliances
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Inverter applications



RoHS

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

Ref	CHB2000LFG15D400	
Parameter		
Rated input I _{PN} (A)	±2000	
Measuring range I _P (A)	0 ~ ±3500	
Turns ratio N _P /N _S (T)	1:5000	
Output current rms I _S (mA)	±400*I _P /I _{PN}	
Secondary coil resistance R _S (Ω)	30	
Inside resistance R _M (Ω)	[(V _C -1.2V)/(I _S *0.001)]-R _S Considering the influence of power supply fluctuation, the power supply voltage value is 95% of the standard value during calculation;	
Supply voltage V _C (V)	(±15 ~±24) ±5%	
Accuracy X _G (%)	@I _{PN} , T=25°C	< ±0.3
Offset current I _{OE} (mA)	@I _P =0, T=25°C	< ±0.2
Temperature variation of I _{OE} I _{OT} (mA/°C)	@I _P =0, -40 ~ +85°C	< ±0.005
Linearity error ε _r (%FS)	< 0.1	



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Di/dt accurately followed (A/μs)	> 100
Response time t _{ra} (μs)	@90% of I _{PN} < 1.0
Power consumption I _C (mA)	40+I _S
Bandwidth BW(KHZ)	@-1dB, I _{PN} DC-200
Insulation voltage V _d (KV)	@50/60Hz, 1min, AC 6.0

General data:

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

Dimensions(mm):