

Open loop Hall current sensor

RMS-CT series dismountable hall effect current sensor is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC, AC or pulsed currents.

Electrical RMS-CT-500 Type Rated input I_{PN} ±500A Measure range & +1500A Rated output voltage V_M ±4V±1% or ±5V±1% Load resistanceR_M ≥ 10kΩ Supply voltage V_c DC ±12V ±15V ± 5% Quiescent current consumption I_C $@V_{CC} = \pm 15V$ ≤ 15 mA Galvanic isolation $V_{\scriptscriptstyle D}$ 50Hz 1min 5KV Linearity ε ι <1%FS Overall accuraty X ±1% Offset voltage V ±20mV Hysteresis offset voltage ¼ ±20mV Offset voltage driftV_{OT} ≤ 0.5mV/ Response time T <7ş, di/dt accurately followed >50A/sµ Frequency bandwidth-3db DC 25KHz Ambient operating temperature A +85 Ambient storage temperatureTs -40 +125 Weight m 280g Standards SJ 20790-2000 JB/T 7490-2007



Products Features

Easy mounting
Small size and space saving
No insertion losses
High immunity to external interference

Applications

AC variable speed drives
Static converters for DC motor drives
Battery supplied applications
Uninterruptible Power Supplies (UPS)
Switched Mode Power Supplies (SMPS)
Power supplies for welding applications

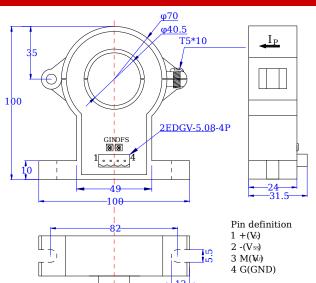
Directions for use

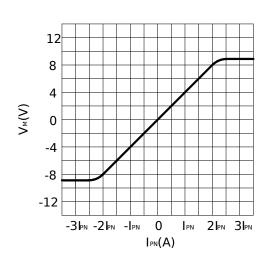
1When the current will be measured goes through a sensor, the voltagewill be measured at the output end. (Note: The false wiring may result in the damage of the sensor).

2Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.

 ${\bf 3}$, Custom design in the different rated input current and the output voltage.

Mechanical dimension(for reference only)





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