

AHBC-LF505 I_P=500A











Products Features

Excellent accuracy
Very good linearity
Wide frequency bandwidth
No insertion losses
High immunity to external interference

Applications

Static converters for DC motor drives
Battery supplied applications
Uninterruptible Power Supplies (UPS)
SWITCHED Mode Power Supplies (SMPS)
Power supplies for welding applications

Remarks

The false wiring may result in the damage of the sensor.

VOUT is positive when IP flows in the direction of the arrow.

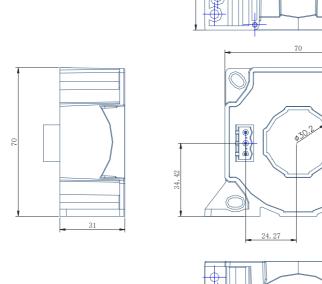
Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.

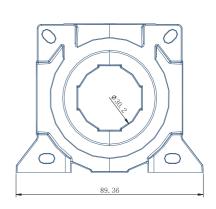
Temperature of the primary conductor should not exceed 100°C.

This is a standard model. For different versions (IP,supply voltages, output voltages,connection of secondary,turns ratios...),please contact us.



Mechanical dimension





Mechanical characteristics

General tolerance \pm 0.5 mm

Recommended fastening torque 3.2 N·m

Vertical position 4 holes Φ4.2mm

4 M4 steel screws



Electrical data AHBC-LF505

@ $T_A = 25 \, ^{\circ}\text{C}$

Туре	AHBC-LF505
I _P Rated input	500A
I _{PM} Measure range	800A
I _S Rated output current	100mA
K _N Conversion ratio	1:5000
R _i Coil internal resistance	83Ω
V _C Supply voltage	±15VDC (± 5%)
Ic Current consumption	(17+ls) mA
X Overall accuraty	±0.5%FS
ε _L Linearity	≤0.1%FS
I ₀ Offset current	±0.2mA
I _{OT} Offset current drift	≤0.4mA
V _D Galvanic isolation	50Hz,1min,3.5KV
T _R Response time	<1µs
BW Frequency bandwidth-3db	DC∼100KHz
T _A Ambient operating temperature	-40∼+85°C
T _S Ambient storage temperature	-40∼+125℃
m Mass	≈251g
Standards	JB/T 7490-2007