

## WCB57A-xxxA

$I_p = 25 \dots 100A$



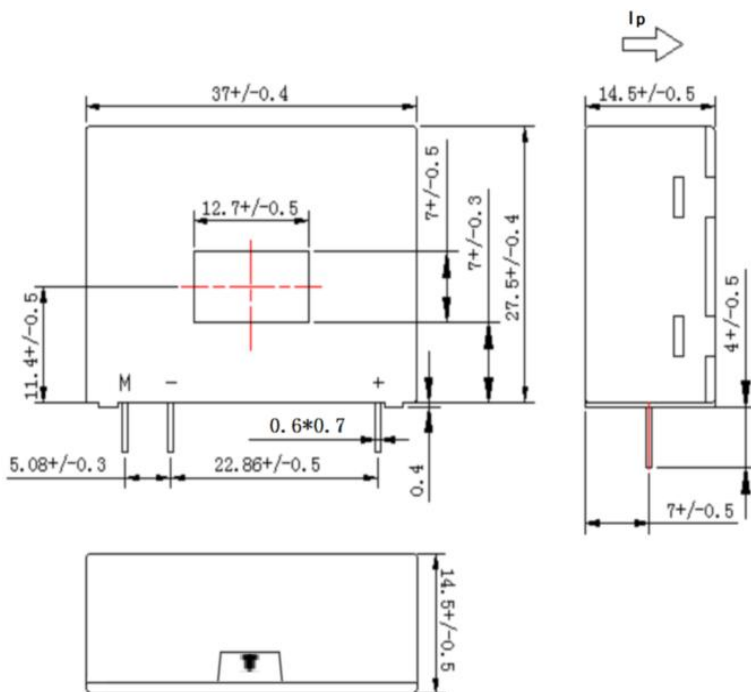
### 产品特点 Products Features

安装方便  
 Easy mounting  
 体积小, 节省空间  
 Small size and space saving  
 无插入损耗  
 No insertion losses  
 抗干扰能力强  
 High immunity to external interference

### 应用领域 Applications

直流电机驱动静态转换器  
 Static converters for DC motor drives  
 通讯电源  
 Battery supplied applications  
 不间断电源 (UPS)  
 Uninterruptible Power Supplies  
 开关电源 (SMPS)  
 SWITCHED Mode Power Supplies  
 电焊机  
 Power supplies for welding applications

### 机械尺寸 Mechanical dimension



### 机械特性 Mechanical characteristics

一般公差  
 General tolerance  
 $\pm 0.5 \text{ mm}$   
 其它公差执行  
 Other tolerance execution  
 GB/T 1804-2000-M  
 建议线路板安装孔  
 Recommended PCB hole  
 $\Phi 1.1 \text{ mm}$

### 注意 Remarks

错误的接线可能导致传感器损坏。  
 The false wiring may result in the damage of the sensor.  
 $I_p$ 方向与产品箭头方向一致时, 输出电压为正极。  
 $V_{OUT}$  is positive when  $I_p$  flows in the direction of the arrow.  
 当初级导体完全充满初级孔径时动态表现 ( $di/dt$ 和响应时间) 为最佳效果。  
 Dynamic performances ( $di/dt$  and response time) are best with a single bar completely filling the primary hole.  
 初级导体的温度不应超过 $100^\circ\text{C}$ 。  
 Temperature of the primary conductor should not exceed  $100^\circ\text{C}$ .

**电气参数Electrical data WCB57A-xxxA**除非另有说明，否则环境参数均为@  $T_A = 25^\circ\text{C}$ ,

型号 Type	WCB57A-25A	WCB57A-30A	WCB57A-50A	WCB57A-75A	WCB57A-100A
额定测量电流 $I_P$ Rated input	$\pm 25\text{A}$	$\pm 30\text{A}$	$\pm 50\text{A}$	$\pm 75\text{A}$	$\pm 100\text{A}$
测量范围 $I_{PM}$ Measure range	$\pm 50\text{A}$	$\pm 60\text{A}$	$\pm 75\text{A}$	$\pm 105\text{A}$	$\pm 150\text{A}$
额定输出电压 $V_{OUT}$ Rated output voltage	$\pm 25\text{mA}$	$\pm 30\text{mA}$	$\pm 50\text{mA}$	$\pm 50\text{mA}$	$\pm 50\text{mA}$
转换比率 $K_N$ Conversion ratio	1:1000	1:1000	1:1000	1:1500	1:2000
测量电阻 $R_M$ (@ $\pm 15\text{V}$ , @ $I_{PM}$ ) Measure resister	30 $\Omega$	30 $\Omega$	30 $\Omega$	20 $\Omega$	10 $\Omega$
总体精度 $\chi$ @ $I_P$ Overall accuraty	$\pm 0.5\%$				
静态电流消耗 $I_c$ Current consumption	$\leq 20\text{mA}$ (@ $\pm 15\text{V}$ , $I_p=0$ )				
电源电压 $V_c$ Supply voltage	$\pm 9\text{VDC} \sim \pm 15\text{VDC}$ ( $\pm 5\%$ )				
频带宽度 $BW$ Frequency bandwidth-3db	DC-100 KHz				
零点失调电流 $I_o$ Offset current	$\pm 0.1\text{mA}$				
零点失调电流温漂 $I_{OT}$ Offset current drift	$\leq 0.5\text{mA}$				
线性度 $\epsilon_L$ Linearity	$\leq 0.1\%FS$				
$di/dt$ 跟随精度 $di/dt$ accurately followed	$> 50\text{A}/\mu\text{s}$				
响应时间 $T_R$ Response time	$< 1\mu\text{s}$				
工作环境温度 $T_A$ Ambient operating temperature	$-40 \sim +85^\circ\text{C}$				
储存环境温度 $T_s$ Ambient storage temperature	$-40 \sim +90^\circ\text{C}$				
绝缘耐压 $V_D$ Galvanic isolation	50Hz, 1min, 4.5KV				
质量 $m$ Mass	$\approx 18\text{g}$				
执行标准 Standards	JB/T 7490-2007				

**定制Customized**

这是一个标准的产品，需要其他规格（测量电流、电源电压、输出电压、连接器、转换比率等）请联系我们。

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

**联系方式Contact information**

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