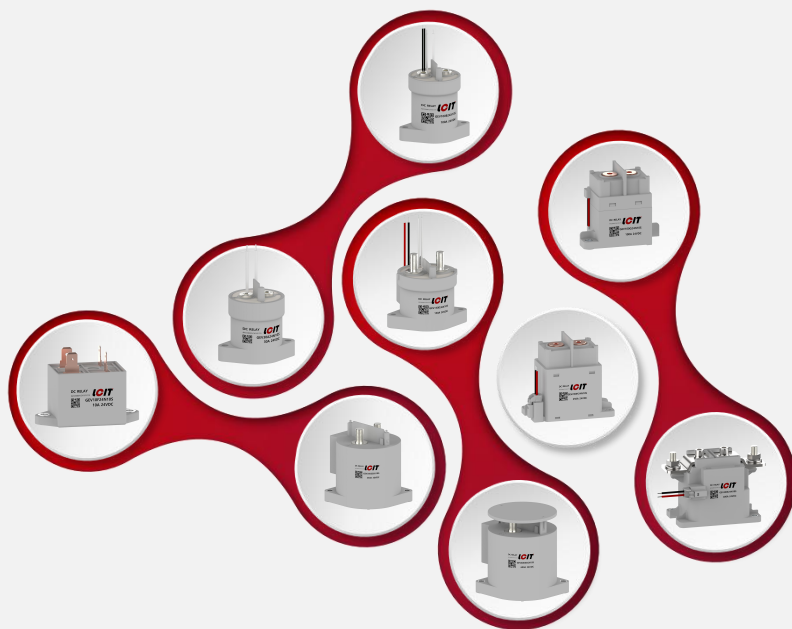



## 新随我动掣电而行

专注新能源车辆及充放电设施、风光储能系统等领域



**20A GEV20K**

## 应用领域 Application field

<b>直流继电器</b> voltage direct current	直流充电桩, 充电柜, 充放电设备 DC charging pile, charging cabinet, charging and discharging equipment; 测试设备, 电池包, 电动车载应用 Test equipment, battery pack, electric vehicle applications; 电动车辆预充电, 加热器, 空调及辅助设备控制 Electric vehicle pre-charging, heater, air conditioner and auxiliary equipment control; 电机控制电路的绝缘, 工业机械的电路保护等 Motor control circuit insulation, industrial machinery circuit protection, etc.	
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## 线圈参数 Coil parameter : 20°C 【±10%】

额定电压 Rated voltage	吸合电压 Pick-up voltage	释放电压 release voltage	最大吸合电压 Maximum pick-up voltage	额定电阻±5% rated resistance	线圈电流 coil current	线圈功率 Coil power
12 VDC	≤ 7.2 VDC	≥ 1.2 VDC	18 VDC	72 Ω	166 mA	2 W
24 VDC	≤ 14.4 VDC	≥ 2.4 VDC	35 VDC	288 Ω	83 mA	2 W

## 性能参数 Performance parameter : 20°C

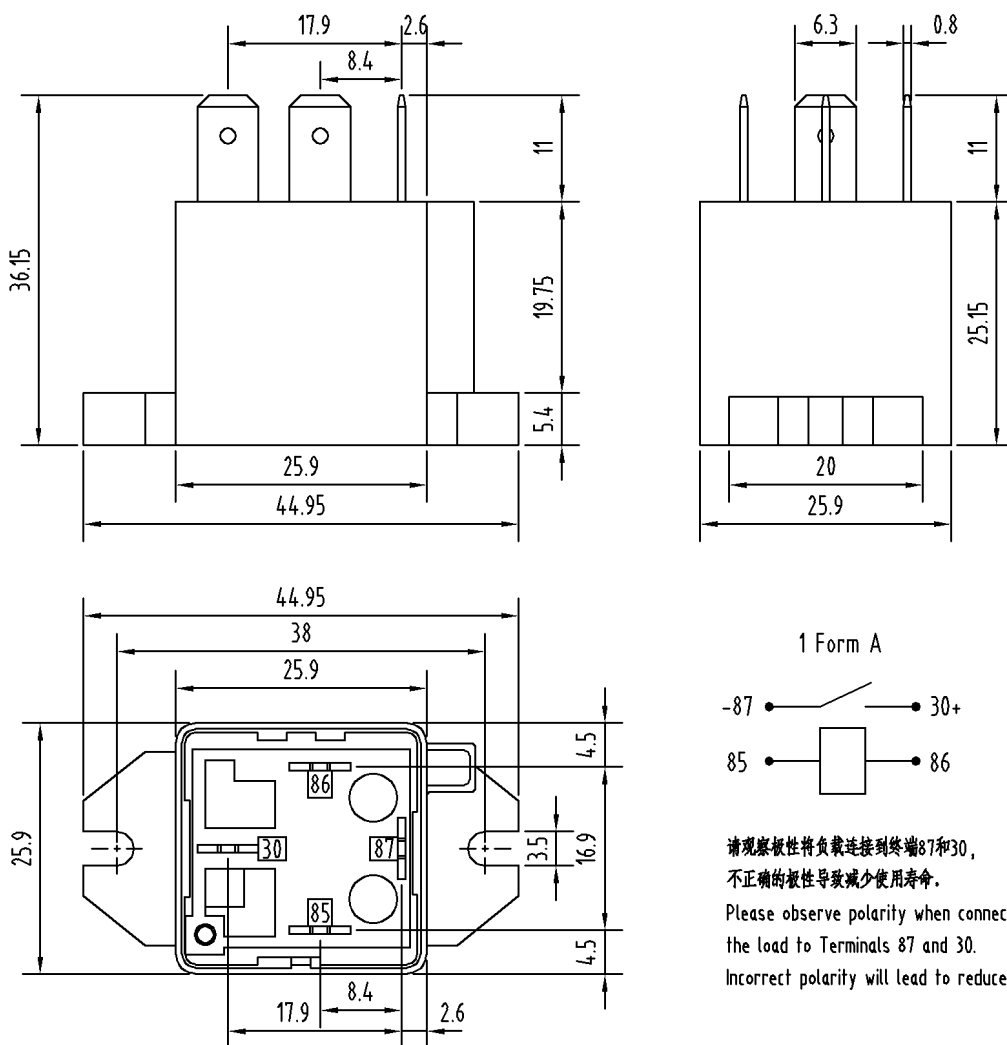
主触点形式 Main contact form	SPST-NO
辅助触点 Auxiliary contact	None
负载电压 Load voltage	12 ~ 110Vdc
负载电流 Load current	1 ~ 20A
最小负载 Minimum load	1A /5Vdc
抗电强度 Electrical resistance strength	600Vrms / 1 min
吸合时间 Pickup time	Max. 7ms
释放时间 Release time	Max. 2ms
机械耐久性 Mechanical Endurance	1×10 <sup>7</sup> 次
电耐久性 (阻性负载) Electrical durability (Resistive load)	1×10 <sup>5</sup> (20A@80VDC, 1sec ON/1sec OFF, resistive)
绝缘电阻 Resistance of insulation	100MΩ at 500VDC, 50%RH, 25°C
初始绝缘电阻 Initial insulation resistance	<100mΩ at 0.1A/6VDC
振动 Vibration	10 to 40Hz DA 1.27mm; 40 - 70Hz:5g 70-100Hz DA 0.5mm, 100 - 500Hz:5g
冲击稳定性 Impact stability	196m/s <sup>2</sup> (20g)
冲击强度 Impact strength	490m/s <sup>2</sup> (10g)
防护等级 Environmental protection	IP54
环境温度 Ambient temperature	-40°C ~ 85°C
储存温度 Storage temperature	-40°C ~ 155°C
负载引出端形式 Load outlet form	插片式 Plug in type/PCB式
外形尺寸 Dimensions	44.95mm×25.9mm×36.15mm 插片式 Plug in type 33.5mm×25.9mm×30.65mm PCB
重量 weight	约about 34.5g

## 订货标记示例 Order mark example

<b>GEV</b>	<b>20</b>	<b>K</b>	<b>24</b>	<b>N</b>	<b>11</b>	<b>S</b>
↓	↓	↓	↓	↓	↓	↓
LCIT企业 EV继电器代码 LCIT enterprise EV relay code	额定电流A Rated current A	壳体编码 Shape coding	线圈电压 Coil voltage 12:12Vdc 24:24Vdc	辅助触点 Auxiliary contact N=None	负载电压 Load voltage 11=12-110VDC	主触点极性 安装方式 Main contact polarity Installation mode <b>S=有/插脚式</b> <b>S=have/pinouts</b> PS=有/PCB式 PS=have/PCB style

## 外形尺寸、接线图、安装孔尺寸

Overall dimensions, wiring diagram, mounting hole dimensions



- 产品部分外形尺寸未注尺寸公差，  
当外形尺寸  $\leq 10\text{mm}$ ，公差  $\pm 0.3\text{mm}$ ；  
当外形尺寸 在  $(10 \sim 50)\text{mm}$  之间时，公差为  $\pm 0.5\text{mm}$ ；  
当外形尺寸  $\geq 50\text{mm}$ ，公差为  $\pm 0.8\text{mm}$ 。
- 公差仅供参考，当与实物不一致时，请以实物尺寸为准。

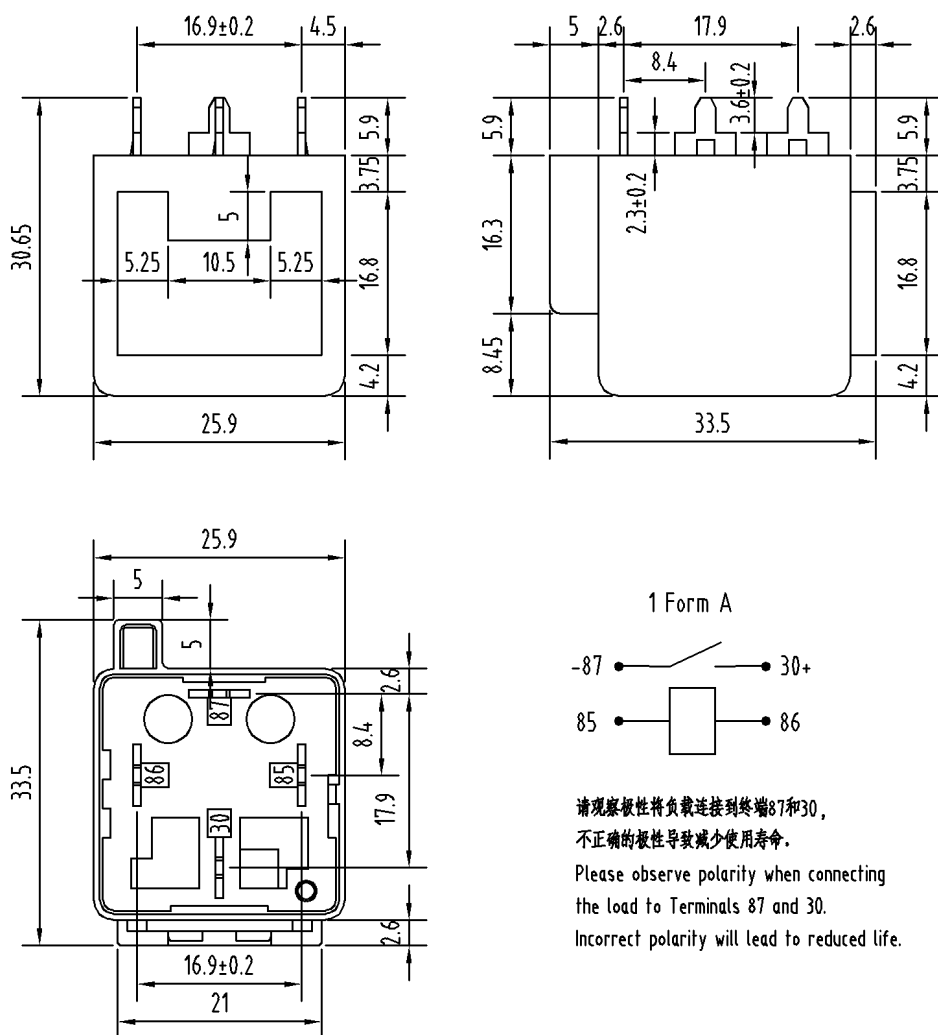
- No dimensional tolerances have been noted in the overall dimensions of some products.  
When the overall size is  $\leq 10\text{mm}$ , the tolerance is  $\pm 0.3\text{mm}$ ;  
When the overall size is between  $(10 \sim 50)\text{mm}$ , the tolerance is  $\pm 0.5\text{mm}$ ;  
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- Tolerance is for reference only, when inconsistent with the real size, please refer to the real size.

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**LCIT**EV直流继电器  
EV VOLATGE DC RELAY



**LCIT**

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