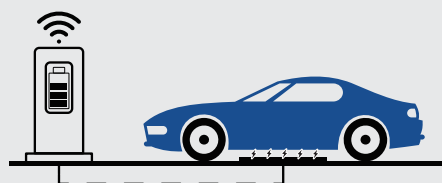
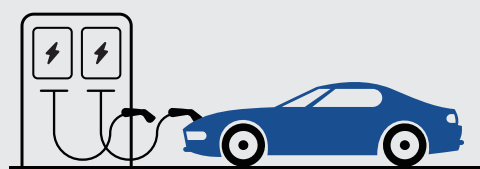
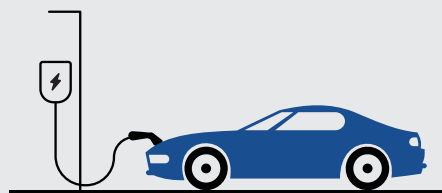
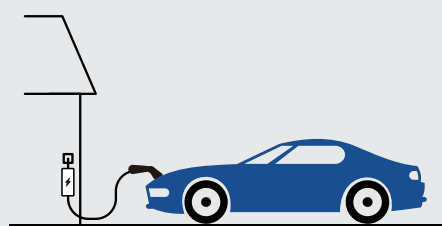
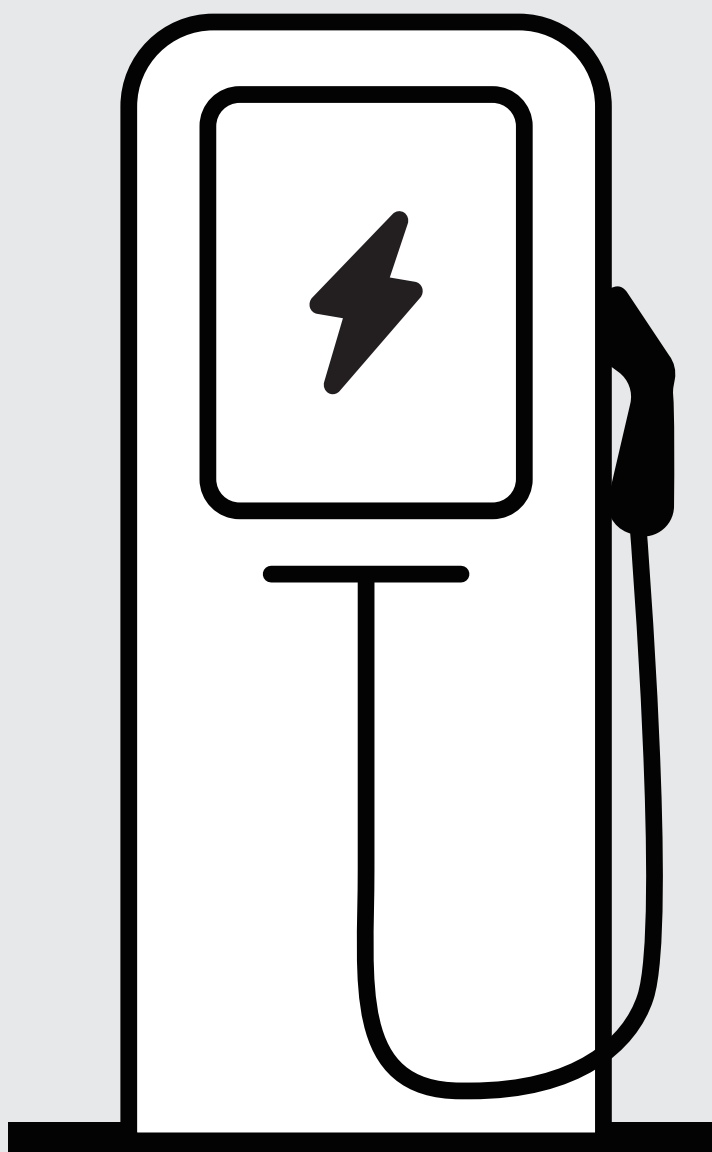


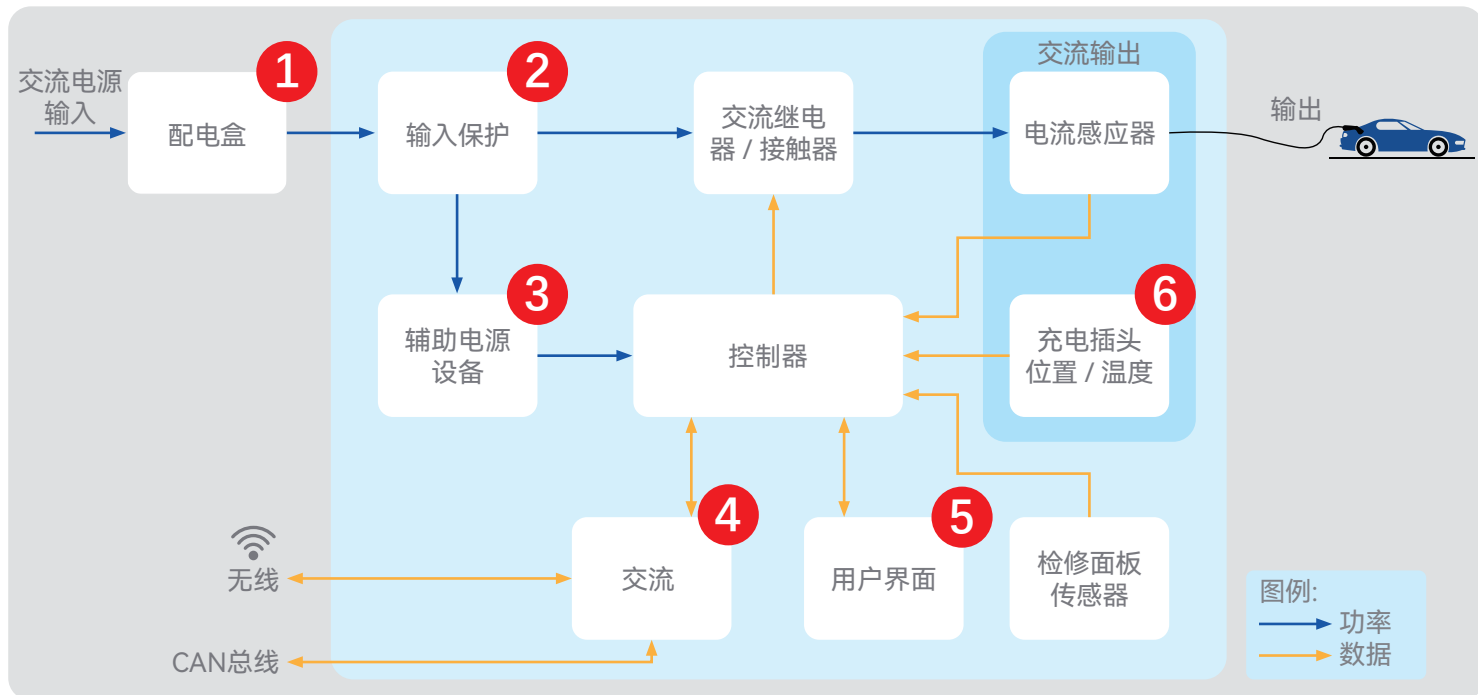
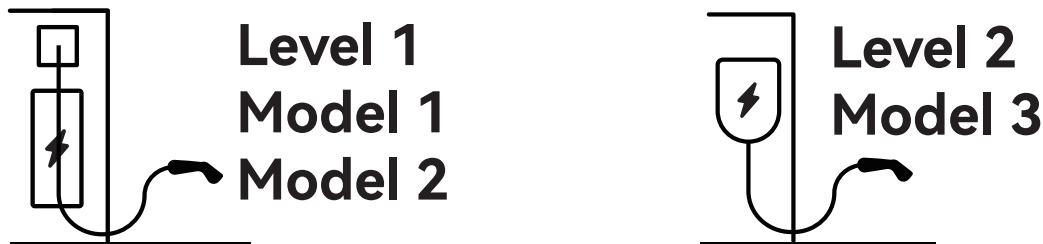
# 电动汽车充电桩电路安全 赛尔特解决方案



# 电动汽车充电桩的类型

电压类型	AC	AC	DC	AC+DC	无线
北美分类	Level 1	Level 2	Level 3	/	/
欧洲分类	Model 1 Model 2	Model 3	Model 4	/	/
图标					
充电系统标准	北美 UL 2594、UL2231  全球（除北美） IEC 61851	北美 UL 2594、UL2231  全球（除北美） IEC 61851	北美 UL 2202、UL2231  全球（除北美） IEC 61851	/	/
充电枪标准	美国 SAE J1772  欧洲 Mennekes Type2 (IEC 62196-2 Type 2)  中国 GB/T 20234.2	美国 SAE J1772  欧洲 Mennekes Type2 (IEC 62196-2 Type 2)  中国 GB/T 20234.2	美国 CCS Type1  欧洲 CCS Type2  中国 GB/T 20234.3  日本 CHAdeMO	/	/
系统电压 (VAC)	单相 120 / 240 220 三相 120 / 208	单相 120 / 240 220 三相 120 / 208	三相 277 / 480 220 / 380 347 / 600	三相 277 / 480 220 / 380 347 / 600	三相 277 / 480 220 / 380 347 / 600
额定电流 (A)	单相 12 ~ 20 三相 32	单相 12 ~ 80 三相 12 ~ 80	<400	125	125
 充电功率 (kW)	1 ~ 3.7	2.5 ~ 22	15 ~ 350	60	3.7 ~ 11
 充电时间 (h)	6 ~ 43	1 ~ 11	0.25 ~ 1	/	/
 充电里程 (km/h)	3 ~ 20	16 ~ 120	250 ~ 1000	/	/
安装方式	挂壁式	挂壁式 落地式	落地式	落地式	落地式
安装地点	家庭	公共 家庭	公共 商业 家庭	公共 商业	公共 家庭
充电接口	一桩一充	一桩一充 一桩多充	一桩一充 一桩多充	一桩多充	/

## AC 充电桩保护



## 赛尔特产品

**1 过电压保护**

1.1 电涌保护器 (SPD)

**2 过温保护**

2.1 温度保险丝 (ATCO)-合金型

**过电压保护**

2.2 瞬态电压抑制二极管 (TVS)

2.3 气体放电管 (GDT)

2.4 压敏电阻 (MOV)

2.5 热保护型压敏电阻 (TFV)-环氧封装型

2.6 热保护型压敏电阻 (TFMOV)-机械脱扣型

**过电流保护**

2.7 小型熔断器 (Mini Fuses)

2.8 低压熔断器 (LV Fuses)

**3 过电流保护**

3.1 抑制浪涌电流NTC 热敏电阻器 (NTC)

**4 过电压保护**

4.1 静电阻抗器 (ESD TVS)

**5 过电压保护**

5.1 静电阻抗器 (ESD TVS)

**6 过温保护**

6.1 温度保险丝 (ATCO)-合金型

**过电压保护**

6.2 气体放电管 (GDT)

# 赛尔特产品特色与特点

## AC 充电桩保护

防护点	名称	系列	特色	特点	
1	SPD 电涌保护器	<ul style="list-style-type: none"> <li>SD25TxxxL205</li> <li>SD25TxxxL405</li> </ul>	<ul style="list-style-type: none"> <li>过温保护设计，高可靠性</li> <li>可插拔模块，防误脱锁止</li> <li>单保护模式通流容量高达50 kA</li> <li>I类和II类电涌保护器，满足IEC/EN 61643-11、UL1449标准</li> <li>2+0 / 4+0保护模式</li> </ul>	<ul style="list-style-type: none"> <li>标称放电电流(<math>I_n</math>): 25 kA</li> <li>冲击放电电流(<math>I_{imp}</math>): (10 ~ 12.5) kA</li> <li>最大连续工作电压(<math>U_c</math>): (275 ~ 440) VAC</li> <li>额定短路电流ISCCR可达25 kA</li> <li>IP20外壳防护等级</li> <li>适应 (0 ~ 5000) M海拔工作环境</li> </ul>	
		了解更多信息，请点击官网链接 SD25TxxxL205: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL205-series-2Phtml">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL205-series-2Phtml</a> SD25TxxxL405: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL405-series-4Phtml">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL405-series-4Phtml</a>			
		<ul style="list-style-type: none"> <li>SD25TxxxA203</li> </ul>	<ul style="list-style-type: none"> <li>过温保护设计，高可靠性</li> <li>可插拔模块，防误脱锁止</li> <li>单保护模式通流容量高达50 kA</li> <li>I类和II类电涌保护器，满足IEC/EN 61643-11标准以及GB/T 1880-11、UL1449标准</li> <li>1+1保护模式</li> </ul>	<ul style="list-style-type: none"> <li>标称放电电流(<math>I_n</math>): 25 kA</li> <li>冲击放电电流(<math>I_{imp}</math>): (11 ~ 12.5) kA</li> <li>最大连续工作电压(<math>U_c</math>): (275 ~ 385) VAC</li> <li>额定短路电流ISCCR可达25 kA</li> <li>IP20外壳防护等级</li> <li>适应 (0 ~ 5000) M海拔工作环境</li> </ul>	
了解更多信息，请点击官网链接 SD25TxxxL203: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA203-series-1PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA203-series-1PN.html</a>					
2	*ATCO 温度保险丝-合金型	<ul style="list-style-type: none"> <li>Y</li> <li>C</li> <li>S</li> <li>U</li> <li>T</li> <li>R</li> </ul>	<ul style="list-style-type: none"> <li>一次性过温保护</li> <li>断开温度精确，可定制</li> <li>密封结构、高可靠性</li> <li>低阻抗</li> <li>满足RoHS &amp; REACH环保要求</li> <li>符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li><math>T_f</math>: (76 ~ 230) °C</li> <li><math>I_r</math>: (5 ~ 200) A</li> <li><math>U_r</math>: (125 ~ 800) VAC, (50 ~ 200) VDC</li> </ul>	
		了解更多信息，请点击官网链接 Y: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html</a> C: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html</a> S: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html</a> U: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html</a> T: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html</a> R: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html</a>			
		<ul style="list-style-type: none"> <li>SPCL10</li> <li>SPCL6</li> <li>SPCL3</li> <li>SPCL1</li> <li>30KPA</li> <li>SMCJ</li> <li>SMDJ</li> <li>5.0SMDJ</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>高可靠性玻璃钝化保护</li> <li>低钳位电压</li> <li>精确导通，超低漏流</li> <li>非退化性，不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>标称浪涌功率: (600 ~ 30000) W</li> <li>8/20<math>\mu</math>s能力: (1 ~ 20) kA</li> <li>超宽工作温度范围: (-55 ~ +175) °C</li> <li>低残压比 &lt; 1.3</li> <li>ns (纳秒) 级响应速度</li> <li>具备插件与贴片封装形式</li> </ul>	
了解更多信息，请点击官网链接 SPCL10: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html</a> SPCL6: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html</a> SPCL3: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html</a> SPCL1: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html</a> 30KPA: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html</a> SMCJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html</a> SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html</a> 5.0SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html</a>					
	GDT 气体放电管	<ul style="list-style-type: none"> <li>SPJ601D</li> <li>SPC601H</li> <li>SE601M-L</li> <li>SE601H-L</li> </ul>	<ul style="list-style-type: none"> <li>交流输入端的N-PE浪涌电流冲击，且能减少其他器件的老化</li> <li>满足客户定制要求 (用于NPE的SPD)</li> </ul>	<ul style="list-style-type: none"> <li>具有大通流、低残压、续流遮断能力强，小体积</li> <li>8/20<math>\mu</math>s浪涌能力: (10 ~ 20) kA</li> <li>直径尺寸: (8 ~ 16) mm</li> <li>安装方式: 插件和模块要求</li> </ul>	
		了解更多信息，请点击官网链接 SPJ601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html</a> SPC601H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPC-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPC-series.html</a> SE601M-L: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html</a> SE601H-L: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html</a>			

\*: 用于压敏电阻劣化失效的过热保护

# 赛尔特产品特色与特点

## AC 充电桩保护

防护点	名称	系列	特色	特点	
2	MOV 压敏电阻	<ul style="list-style-type: none"> <li>• SFV10D</li> <li>• SFV14D</li> <li>• SFV20D</li> </ul>	<ul style="list-style-type: none"> <li>• 低限制电压</li> <li>• 高浪涌抑制能力</li> <li>• 上限工作温度可达105 °C &amp; 125 °C</li> <li>• 满足高温高湿环境长期可靠性工作</li> <li>• 符合IEC62368标准要求</li> </ul>	<ul style="list-style-type: none"> <li>• 通流容量: (3.5 ~ 10) kA</li> <li>• 浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>• 最大交流工作电压: (130 ~ 750) V</li> <li>• 最大直流工作电压: (170 ~ 990) V</li> </ul>	
		了解更多信息, 请点击官网链接 SFV10D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html</a> SFV14D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html</a> SFV20D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html</a>			
	TFV 热保护型压敏电阻 -环氧封装型	<ul style="list-style-type: none"> <li>• TFV8S</li> <li>• TFV10S</li> <li>• TFV15S</li> </ul>	<ul style="list-style-type: none"> <li>• 不用变更PCB设计即可增加热保护功能</li> <li>• 通过IEC62368.1 G8.2过载测试认证</li> <li>• 符合UL1449标准要求</li> <li>• 上限工作温度可达105 °C</li> </ul>	<ul style="list-style-type: none"> <li>• 通流容量: (3.5 ~ 10) kA</li> <li>• 浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>• 最大交流工作电压: (130 ~ 510) V</li> <li>• 最大直流工作电压: (170 ~ 670) V</li> </ul>	
		了解更多信息, 请点击官网链接 TFV8S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html</a> TFV10S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html</a> TFV15S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html</a>			
	TFMOV 热保护型压敏电阻 -机械脱扣型	<ul style="list-style-type: none"> <li>• TFMOV10M</li> </ul>	<ul style="list-style-type: none"> <li>• 过温保护设计, 高可靠性</li> <li>• 体积小巧, PCB安装</li> <li>• 通流量高</li> <li>• 采用机械脱扣, 响应时间快, 动作可靠</li> <li>• 满足IEC/EN 61643-11、61643-31、UL1449标准</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级的响应时间</li> <li>• V0阻燃级外壳</li> <li>• 标称放电电流可达10 kA</li> <li>• 最大放电电流(<math>I_{max}</math>): 25 kA</li> </ul>	
		了解更多信息, 请点击官网链接 TFMOV10M: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html</a>			
	Mini Fuses 小型熔断器	<ul style="list-style-type: none"> <li>• SCT1032</li> <li>• SCT6125</li> </ul>	<ul style="list-style-type: none"> <li>• 低温升</li> <li>• 低功耗</li> <li>• 陶瓷外壳</li> <li>• 表贴式安装</li> <li>• 无铅</li> </ul>	<ul style="list-style-type: none"> <li>• 低分断100 A@350 VAC</li> <li>• 中等 <math>I_t</math></li> </ul>	
		了解更多信息, 请点击官网链接 SCT1032: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Surface-Mount-Fuse-links-SMFL/SCT1032-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Surface-Mount-Fuse-links-SMFL/SCT1032-series.html</a> SCT6125: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Surface-Mount-Fuse-links-SMFL/SCT6125-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Surface-Mount-Fuse-links-SMFL/SCT6125-series.html</a>			
		<ul style="list-style-type: none"> <li>• SCF632(P)</li> </ul>	<ul style="list-style-type: none"> <li>• 小尺寸</li> <li>• 低温升</li> <li>• 低功耗</li> <li>• 连接可靠</li> <li>• 交直流通用</li> <li>• 具有多电压参数</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方式可选</li> </ul>	<ul style="list-style-type: none"> <li>• 尺寸: <math>\varnothing 6.36 \times 31.8</math> mm</li> <li>• 额定电压 (<math>U_n</math>): (250 ~ 600) VAC / VDC</li> <li>• 额定电流 (<math>I_n</math>): (0.4 ~ 30) A</li> <li>• 高分断: 10 kA@600 VAC (<math>\leq 12.5</math> A) 50 kA@600 VDC (<math>\leq 12.5</math> A) 1000 A@600 VAC / VDC (15 ~ 30 A)</li> <li>• 可ms (毫秒) 级熔断</li> <li>• 中等 <math>I_t</math></li> <li>• 电路板上焊接安装或管夹安装</li> </ul>	
		了解更多信息, 请点击官网链接 SCF632(P): <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html</a>			
<ul style="list-style-type: none"> <li>• SPT478</li> </ul>		<ul style="list-style-type: none"> <li>• 低温升</li> <li>• 低功耗</li> <li>• 塑料外壳</li> </ul>	<ul style="list-style-type: none"> <li>• 增强分断150 A@400 VAC</li> <li>• 高 <math>I_t</math></li> </ul>		
了解更多信息, 请点击官网链接 SPT478: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Sub-miniature-Fuse-links-SFL/SPT478-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Sub-miniature-Fuse-links-SFL/SPT478-series.html</a>					
LV Fuses 低压熔断器	<ul style="list-style-type: none"> <li>• LFR00</li> </ul>	<ul style="list-style-type: none"> <li>• 大功率交流侧专用</li> <li>• 安装端子可选</li> <li>• ms (毫秒) 级熔断</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC, 最大电流到630 A</li> <li>• 带端子螺栓连接, 触刀底座安装, 平板螺栓连接</li> <li>• 快断型</li> </ul>		
	了解更多信息, 请点击官网链接 LFR00: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Low-Voltage-Fuses-LV-Fuses/LFR00-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Low-Voltage-Fuses-LV-Fuses/LFR00-series.html</a>				
	<ul style="list-style-type: none"> <li>• LFR15</li> </ul>	<ul style="list-style-type: none"> <li>• 交直流可用</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方便</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC / 500 VDC</li> <li>• 额定电流(<math>I_n</math>): (10 ~ 100) A</li> <li>• 快断型</li> <li>• 螺栓连接</li> </ul>		
了解更多信息, 请联系销售人员					

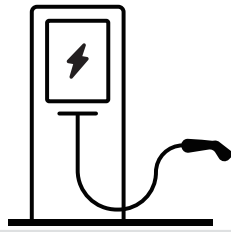
# 赛尔特产品特色与特点

## AC 充电桩保护

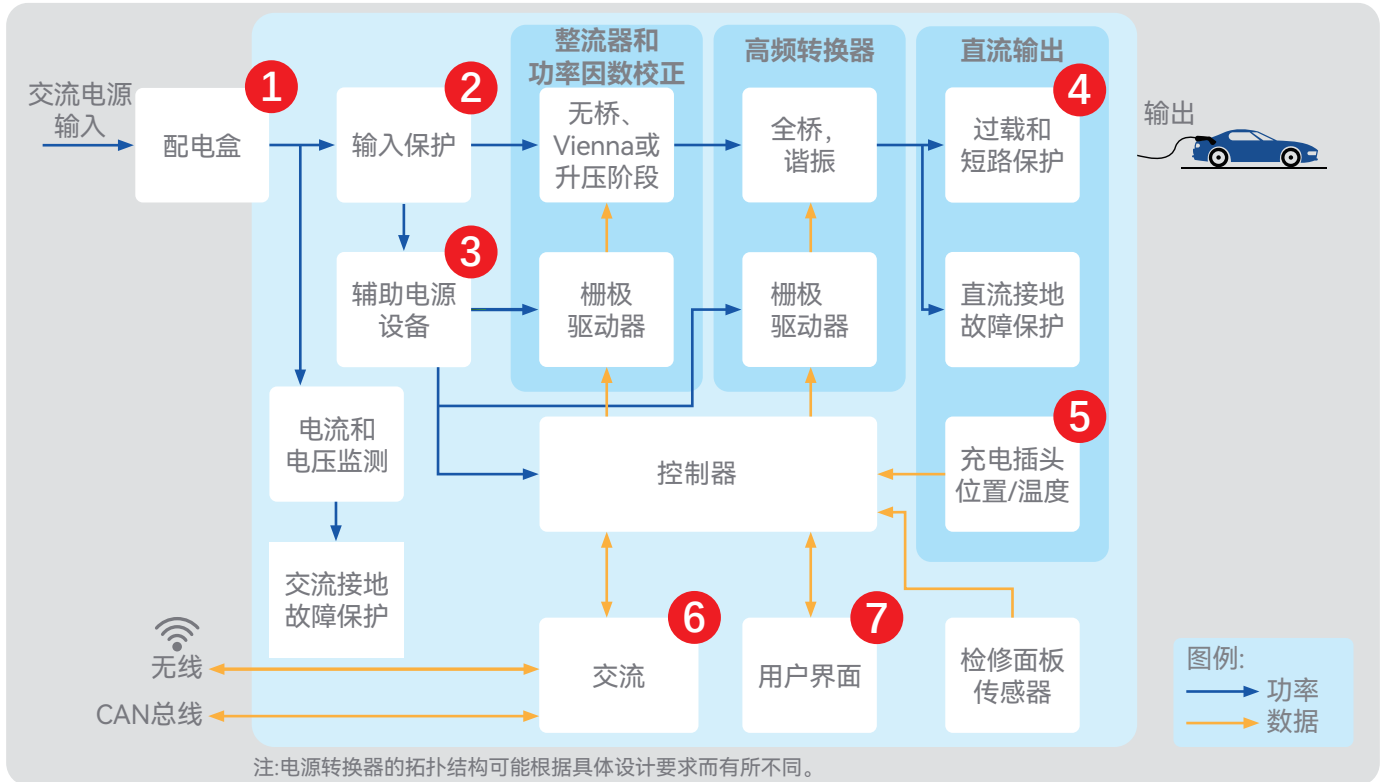
防护点	名称	系列	特色	特点
3	NTC 抑制浪涌电流NTC 热敏电阻器	<ul style="list-style-type: none"> <li>D-15</li> <li>D-20</li> <li>D-25</li> <li>D-30</li> </ul>	<ul style="list-style-type: none"> <li>高稳定电气特性</li> </ul>	<ul style="list-style-type: none"> <li>体积小</li> <li>工作温度范围-40℃至175℃</li> <li>抑制浪涌能力强</li> <li>材料常数(B值)大, 残余电阻小</li> </ul>
了解更多信息, 请点击官网链接 D-15: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html</a> D-20: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html</a> D-25: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html</a> D-30: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html</a>				
4	ESD TVS 静电电阻器	<ul style="list-style-type: none"> <li>GSM24CCAN</li> <li>SD2403T23L</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>双路双向ESD &amp; EOS防护</li> <li>精确导通, 超低漏流</li> <li>低电容 &amp; 低残压</li> <li>非退化性, 不会疲劳</li> <li>满足AEC-Q101要求</li> </ul>	<ul style="list-style-type: none"> <li>满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>最大浪涌功率: 350 W @8/20 μs</li> <li>低电容水平: 13 pF</li> <li>低钳位电压: VC &lt; 35 V at IPP = 1 A</li> <li>超低漏电流: 小于1 μA</li> </ul>
了解更多信息, 请点击官网链接 GSM24CCAN: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/GSM24CCAN-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/GSM24CCAN-series.html</a> SD2403T23L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD2403T23L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD2403T23L-series.html</a>				
5	ESD TVS 静电电阻器	<ul style="list-style-type: none"> <li>SD0504F10L</li> <li>SD0520F10L</li> </ul>	<ul style="list-style-type: none"> <li>超小尺寸</li> <li>ns (纳秒) 级快速响应</li> <li>双向ESD &amp; EOS防护</li> <li>精确导通, 超低漏流</li> <li>低电容 &amp; 低残压</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>最大浪涌功率: 400 W @8/20 μs</li> <li>低电容水平: 15 pF</li> <li>低钳位电压: VC &lt; 10 V at IPP = 1 A</li> <li>超低漏电流: 小于1 μA</li> </ul>
了解更多信息, 请点击官网链接 SD0504F10L: 请联系销售人员 SD0520F10L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD0520F10L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD0520F10L-series.html</a>				
6	ATCO 温度保险丝-合金型	<ul style="list-style-type: none"> <li>JB</li> </ul>	<ul style="list-style-type: none"> <li>一次性过温保护</li> <li>断开温度精确, 可定制</li> <li>密封结构, 高可靠性</li> <li>低阻抗</li> <li>满足RoHS &amp; REACH环保要求</li> <li>符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li>内置弹簧分断结构</li> <li>快速响应, ms (毫秒) 级熔断</li> <li>T<sub>r</sub>: (76 ~ 187) °C</li> <li>I<sub>r</sub>: (5 ~ 40) A</li> <li>U<sub>r</sub>: (125 ~ 380) VAC, (50 ~ 1000) VDC</li> </ul>
	GDT 气体放电管	<ul style="list-style-type: none"> <li>SE</li> <li>SC</li> <li>SF (高压)</li> </ul>	<ul style="list-style-type: none"> <li>满足高压交流侧的N-PE浪涌大电流冲击, 且能减少其他器件的老化</li> <li>防止瞬态高压通过充电桩对设备或人体触电</li> </ul>	<ul style="list-style-type: none"> <li>直流击穿电压: (350 ~ 3600) V</li> <li>安装方式: 插件或贴片要求</li> <li>体积小, 安装空间小</li> </ul>
了解更多信息, 请点击官网链接 SE: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html</a> SC: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SC-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SC-series.html</a> SF: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SF-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SF-series.html</a>				

# 赛尔特产品在充电桩中的安全应用

## DC 充电桩保护



Level 3  
Model 4



## 赛尔特产品

1 **过电压保护**

- 1.1 气体放电管 (GDT)
- 1.2 电涌保护器 (SPD)

2 **过温保护**

- 2.1 温度保险丝 (ATCO)-合金型

**过电压保护**

- 2.2 瞬态电压抑制二极管 (TVS)
- 2.3 压敏电阻 (MOV)
- 2.4 热保护型压敏电阻 (TFV)-环氧封装型 (TFV)
- 2.5 热保护型压敏电阻 (TFMOV)-机械脱扣型

**过电流保护**

- 2.6 低压熔断器 (LV Fuses)

3 **过电流保护**

- 3.1 抑制浪涌电流NTC 热敏电阻器 (NTC)

4 **过电流保护**

- 4.1 低压熔断器 (LV Fuses)

5 **过温保护**

- 5.1 温度保险丝 (ATCO)-合金型

6 **过电压保护**

- 6.1 静电阻抗器 (ESD TVS)

7 **过电压保护**

- 7.1 静电阻抗器 (ESD TVS)

# 赛尔特产品特色与特点

## DC 充电桩保护

防护点	名称	系列	特色	特点
1	GDT 气体放电管	<ul style="list-style-type: none"> <li>• SPJ601D</li> <li>• SPI601D</li> </ul>	<ul style="list-style-type: none"> <li>• 交流输入端的N-PE浪涌电流冲击，且能减少其他器件的老化</li> <li>• 满足客户定制要求（用于NPE的SPD）</li> <li>• 工作温度：(-40 ~ 125) °C</li> </ul>	<ul style="list-style-type: none"> <li>• 具有大通流、低残压、续流遮断能力强，高绝缘，小体积</li> <li>• 8/20<math>\mu</math>s最大浪涌能力：(40 ~ 80) kA</li> <li>• 直径尺寸：16 mm</li> <li>• 安装方式：插件和模块要求</li> </ul>
		了解更多信息，请点击官网链接 SPJ601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html</a> SPI601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPI-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPI-series.html</a>		
	SPD 电涌保护器	<ul style="list-style-type: none"> <li>• SD25TxxxL201</li> <li>• SD25TxxxL306</li> </ul>	<ul style="list-style-type: none"> <li>• 过温保护设计，高可靠性</li> <li>• 可插拔模块固定牢靠</li> <li>• 通流量高</li> <li>• I类和II类电涌保护器，满足IEC/EN 61643-11、UL1449标准</li> <li>• 3+0/分相系统保护</li> </ul>	<ul style="list-style-type: none"> <li>• 标称放电电流(<math>I_n</math>): (20 ~ 25) kA</li> <li>• 冲击放电电流(<math>I_{imp}</math>): (5 ~ 12.5) kA</li> <li>• 最大连续工作电压(<math>U_c</math>): (150 ~ 1300) VAC</li> <li>• 额定短路电流ISCCR可达25 kA</li> <li>• IP20外壳防护等级</li> <li>• 适应(0 ~ 5000) M海拔工作环境</li> </ul>
		了解更多信息，请点击官网链接 SD25TxxxL201: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL201-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL201-series.html</a> SD25TxxxL306: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL306-series-3P.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxL306-series-3P.html</a>		
		<ul style="list-style-type: none"> <li>• SD20RxxxA404</li> <li>• SD25TxxxA404</li> </ul>	<ul style="list-style-type: none"> <li>• 过温保护设计，高可靠性</li> <li>• 可插拔模块固定牢靠</li> <li>• 通流量高</li> <li>• I类和II类电涌保护器，满足IEC/EN 61643-11、UL1449标准</li> <li>• 3+1保护模式</li> </ul>	<ul style="list-style-type: none"> <li>• 标称放电电流(<math>I_n</math>): (20 ~ 25) kA</li> <li>• 冲击放电电流(<math>I_{imp}</math>): (11 ~ 12.5) kA</li> <li>• 最大连续工作电压(<math>U_c</math>): (150 ~ 385) VAC</li> <li>• 额定短路电流ISCCR可达25 kA</li> <li>• IP20外壳防护等级</li> <li>• 适应(0 ~ 5000) M海拔工作环境</li> </ul>
了解更多信息，请点击官网链接 SD20RxxxA404: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD20-30R-series-3PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD20-30R-series-3PN.html</a> SD25TxxxA404: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA404-series-3PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA404-series-3PN.html</a>				
2	*ATCO 温度保险丝-合金型	<ul style="list-style-type: none"> <li>• Y</li> <li>• C</li> <li>• S</li> <li>• U</li> <li>• T</li> <li>• R</li> </ul>	<ul style="list-style-type: none"> <li>• 一次性过温保护</li> <li>• 断开温度精确，可定制</li> <li>• 密封结构、高可靠性</li> <li>• 低阻抗</li> <li>• 满足RoHS &amp; REACH环保要求</li> <li>• 符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li>• <math>T_f</math>: (76 ~ 230) °C</li> <li>• <math>I_r</math>: (5 ~ 200) A</li> <li>• <math>U_r</math>: (125 ~ 800) VAC, (50 ~ 200) VDC</li> </ul>
		了解更多信息，请点击官网链接 Y: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html</a> C: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html</a> S: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html</a> U: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html</a> T: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html</a> R: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html</a>		
		<ul style="list-style-type: none"> <li>• SPCL10</li> <li>• SPCL6</li> <li>• SPCL3</li> <li>• SPCL1</li> <li>• 30KPA</li> <li>• SMCJ</li> <li>• SMDJ</li> <li>• 5.0SMDJ</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级快速响应</li> <li>• 高可靠性玻璃钝化保护</li> <li>• 低钳位电压</li> <li>• 精确导通，超低漏流</li> <li>• 非退化性，不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>• 标称浪涌功率: (600 ~ 30000) W</li> <li>• 8/20<math>\mu</math>s能力: (1 ~ 20) kA</li> <li>• 超宽工作温度范围: (-55 ~ +175) °C</li> <li>• 低残压比 &lt; 1.3</li> <li>• ns (纳秒) 级响应速度</li> <li>• 具备插件与贴片封装形式</li> </ul>
了解更多信息，请点击官网链接 SPCL10: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html</a> SPCL6: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html</a> SPCL3: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html</a> SPCL1: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html</a> 30KPA: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html</a> SMCJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html</a> SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html</a> 5.0SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html</a>				

\*: 用于压敏电阻劣化失效的过热保护



# 赛尔特产品特色与特点

## DC 充电桩保护

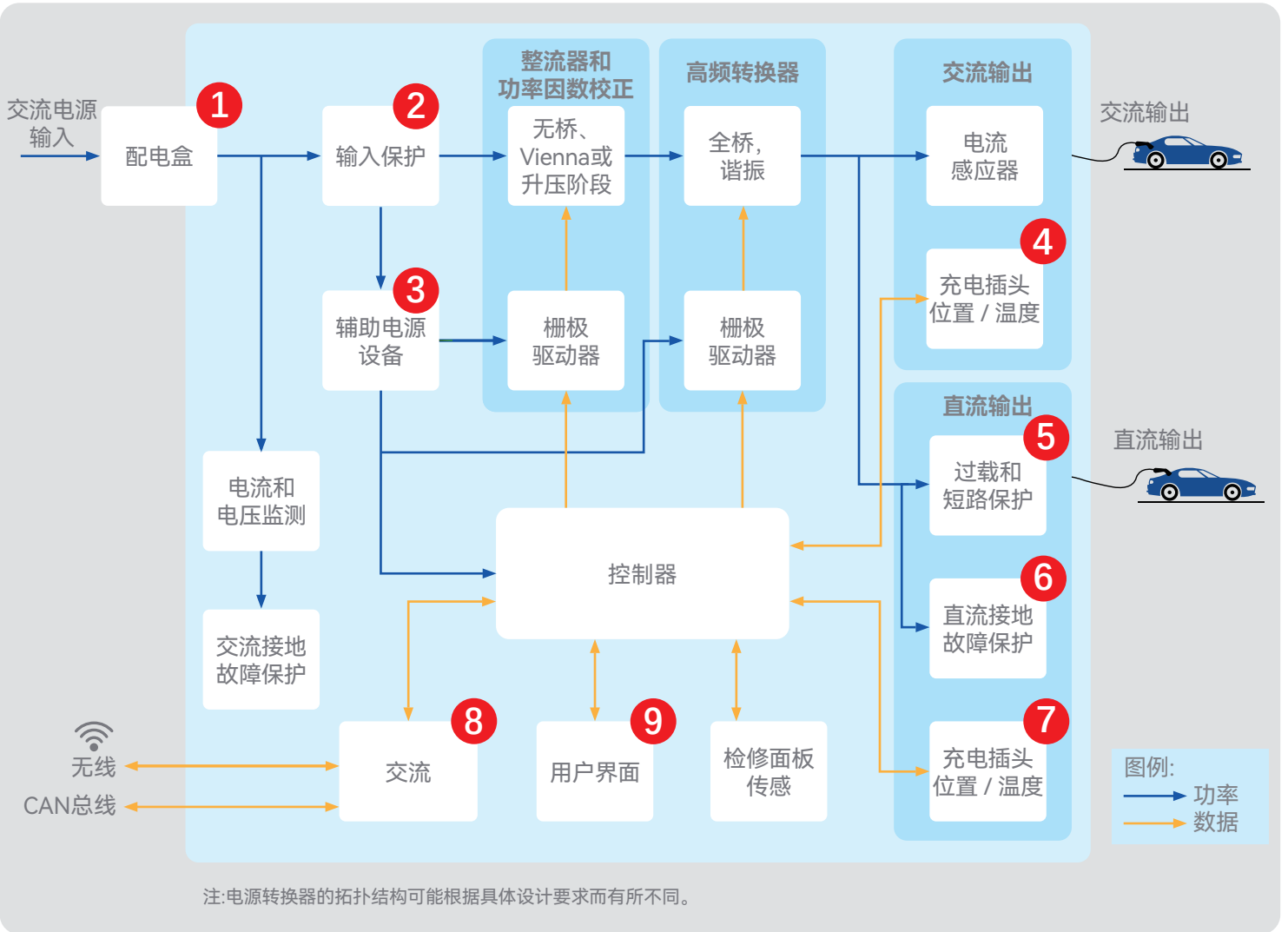
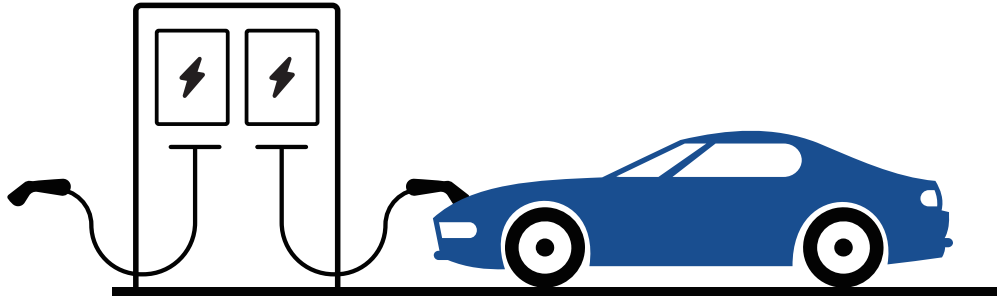
防护点	名称	系列	特色	特点	
2	MOV 压敏电阻	<ul style="list-style-type: none"> <li>SFV10D</li> <li>SFV14D</li> <li>SFV20D</li> </ul>	<ul style="list-style-type: none"> <li>低限制电压</li> <li>高浪涌抑制能力</li> <li>上限工作温度可达105℃ &amp; 125℃</li> <li>满足高温高湿环境长期可靠性工作</li> <li>符合IEC62368标准要求</li> </ul>	<ul style="list-style-type: none"> <li>通流容量: (3.5 ~ 10) kA</li> <li>浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>最大交流工作电压: (130 ~ 750) V</li> <li>最大直流工作电压: (170 ~ 990) V</li> </ul>	
	了解更多信息, 请点击官网链接 SFV10D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html</a> SFV14D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html</a> SFV20D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html</a>				
	TFV 热保护型压敏电阻 -环氧封装型	<ul style="list-style-type: none"> <li>TFV8S</li> <li>TFV10S</li> <li>TFV15S</li> </ul>	<ul style="list-style-type: none"> <li>不用变更PCB设计即可增加热保护功能</li> <li>通过IEC62368.1 G8.2过载测试认证</li> <li>符合UL1449标准要求</li> <li>上限工作温度可达105℃</li> </ul>	<ul style="list-style-type: none"> <li>通流容量: (3.5 ~ 10) kA</li> <li>浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>最大交流工作电压: (130 ~ 510) V</li> <li>最大直流工作电压: (170 ~ 670) V</li> </ul>	
	了解更多信息, 请点击官网链接 TFV8S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html</a> TFV10S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html</a> TFV15S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html</a>				
	TFMOV 热保护型压敏电阻 -机械脱扣型	<ul style="list-style-type: none"> <li>TFMOV10M</li> </ul>	<ul style="list-style-type: none"> <li>过温保护设计, 高可靠性</li> <li>体积小巧, PCB安装</li> <li>通流量高</li> <li>采用机械脱扣, 响应时间快, 动作可靠</li> <li>满足IEC/EN 61643-11、61643-31、UL1449标准</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级的响应时间</li> <li>V0阻燃级外壳</li> <li>标称放电电流可达10 kA</li> <li>最大放电电流(<math>I_{max}</math>): 25 kA</li> </ul>	
	了解更多信息, 请点击官网链接 TFMOV10M: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html</a>				
	LV Fuses 低压熔断器	<ul style="list-style-type: none"> <li>LFR00</li> </ul>	<ul style="list-style-type: none"> <li>大功率交流侧专用</li> <li>安装端子可选</li> <li>ms (毫秒) 级熔断</li> </ul>	<ul style="list-style-type: none"> <li>额定电压(V): 690 VAC, 最大电流到630 A</li> <li>带端子螺栓连接, 触刀底座安装, 平板螺栓连接</li> <li>快断型</li> </ul>	
了解更多信息, 请点击官网链接 LFR00: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Low-Voltage-Fuses-LV-Fuses/LFR00-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Low-Voltage-Fuses-LV-Fuses/LFR00-series.html</a>					
3	NTC 抑制浪涌电流NTC 热敏电阻器	<ul style="list-style-type: none"> <li>D-15</li> <li>D-20</li> <li>D-25</li> <li>D-30</li> </ul>	<ul style="list-style-type: none"> <li>高稳定电气特性</li> </ul>	<ul style="list-style-type: none"> <li>体积小</li> <li>工作温度范围-40℃ 至 175℃</li> <li>抑制浪涌能力强</li> <li>材料常数(B值)大, 残余电阻小</li> </ul>	
		了解更多信息, 请点击官网链接 D-15: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html</a> D-20: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html</a> D-25: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html</a> D-30: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html</a>			
4	LV Fuses 低压熔断器	<ul style="list-style-type: none"> <li>LFR5A XXXA500V</li> </ul>	<ul style="list-style-type: none"> <li>直流专用</li> <li>ms (毫秒) 级熔断</li> <li>安装方便</li> <li>电木壳体熔断器</li> <li>端电极一体化设计</li> <li>超薄设计</li> <li>极简设计</li> </ul>	<ul style="list-style-type: none"> <li>额定电压(V): 500 VDC</li> <li>额定电流(<math>I_n</math>): (100 ~ 400) A</li> <li>快断型</li> <li>螺栓连接</li> <li>分断能力30 kA</li> <li>端电极具有高的抗拉抗压抗弯折性能</li> <li>适合狭窄空间安装</li> <li>高性价比产品</li> </ul>	
		了解更多信息, 请联系销售人员			
		<ul style="list-style-type: none"> <li>LFR15</li> </ul>	<ul style="list-style-type: none"> <li>交直流可用</li> <li>ms (毫秒) 级熔断</li> <li>安装方便</li> </ul>	<ul style="list-style-type: none"> <li>额定电压(V): 690 VAC / 500 VDC,</li> <li>额定电流(<math>I_n</math>): (10 ~ 100) A</li> <li>快断型</li> <li>螺栓连接</li> </ul>	
了解更多信息, 请联系销售人员					

# 赛尔特产品特色与特点

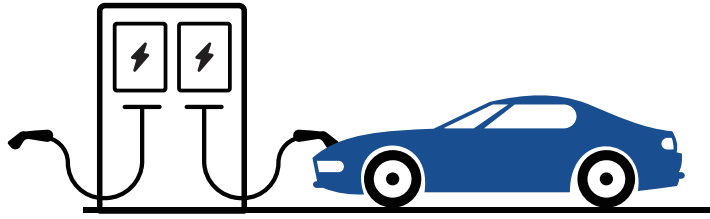
## DC 充电桩保护

防护点	名称	系列	特色	特点	
4	LV Fuses 低压熔断器	• LFR20	<ul style="list-style-type: none"> <li>直流专用</li> <li>ms (毫秒) 级熔断</li> <li>安装方便</li> </ul>	<ul style="list-style-type: none"> <li>额定电压(V): 750 VDC</li> <li>额定电流(I<sub>n</sub>): (50 ~ 200) A</li> <li>快断型</li> <li>螺栓连接</li> </ul>	
		了解更多信息, 请联系销售人员			
		• LFR24	<ul style="list-style-type: none"> <li>直流专用</li> <li>ms (毫秒) 级熔断</li> <li>高强度复合管</li> <li>安装方便</li> </ul>	<ul style="list-style-type: none"> <li>额定电压(V): 1000 VDC</li> <li>额定电流(I<sub>n</sub>): (80 ~ 350) A</li> <li>快断型</li> <li>三聚氰胺玻璃纤维布复合管</li> <li>螺栓连接</li> </ul>	
了解更多信息, 请联系销售人员					
5	ATCO 温度保险丝-合金型	• JB	<ul style="list-style-type: none"> <li>一次性过温保护</li> <li>断开温度精确, 可定制</li> <li>密封结构、高可靠性</li> <li>低阻抗</li> <li>满足RoHS &amp; REACH环保要求</li> <li>符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li>内置弹簧分断结构</li> <li>快速响应, ms (毫秒) 级熔断</li> <li>T<sub>f</sub>: (76 ~ 187) °C</li> <li>I<sub>r</sub>: (5 ~ 40) A</li> <li>U<sub>r</sub>: (125 ~ 380) VAC, (50 ~ 1000) VDC</li> </ul>	
了解更多信息, 请联系销售人员					
6	ESD TVS 静电阻抗器	<ul style="list-style-type: none"> <li>• GSM24CCAN</li> <li>• SD2403T23L</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>双路双向ESD &amp; EOS防护</li> <li>精确导通, 超低漏流</li> <li>低电容 &amp; 低残压</li> <li>非退化性, 不会疲劳</li> <li>满足AEC-Q101要求</li> </ul>	<ul style="list-style-type: none"> <li>满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>最大浪涌功率: 350 W @8/20 μs</li> <li>低电容水平: 13 pF</li> <li>低钳位电压: VC &lt; 35 V at IPP = 1 A</li> <li>超低漏电流: 小于1 μA</li> </ul>	
了解更多信息, 请点击官网链接 GSM24CCAN: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TV-S-Diode-Arrays/GSM24CCAN-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TV-S-Diode-Arrays/GSM24CCAN-series.html</a> SD2403T23L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TV-S-Diode-Arrays/SD2403T23L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TV-S-Diode-Arrays/SD2403T23L-series.html</a>					
7	ESD TVS 静电阻抗器	<ul style="list-style-type: none"> <li>• SD0504F10L</li> <li>• SD0520F10L</li> </ul>	<ul style="list-style-type: none"> <li>超小尺寸</li> <li>ns (纳秒) 级快速响应</li> <li>双向ESD &amp; EOS防护</li> <li>精确导通, 超低漏流</li> <li>低电容 &amp; 低残压</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>最大浪涌功率: 400 W @8/20 μs</li> <li>低电容水平: 15 pF</li> <li>低钳位电压: VC &lt; 10 V at IPP = 1 A</li> <li>超低漏电流: 小于1 μA</li> </ul>	
了解更多信息, 请点击官网链接 SD0504F10L: 请联系销售人员 SD0520F10L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TV-S-Diode-Arrays/SD0520F10L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TV-S-Diode-Arrays/SD0520F10L-series.html</a>					

## AC+DC 充电桩保护



## AC+DC 充电桩保护



### 赛尔特产品

#### 1 过电压保护

1.1 电涌保护器 (SPD)



#### 2 过温保护

2.1 温度保险丝 (ATCO)-合金型



#### 过电压保护

2.2 瞬态电压抑制二极管 (TVS)



2.3 气体放电管 (GDT)



2.4 压敏电阻 (MOV)



2.5 热保护型压敏电阻 (TFV)-环氧包封型 (TFV)



2.6 热保护型压敏电阻 (TFMOV)-机械脱扣型



#### 过电流保护

2.7 小型熔断器 (Mini Fuses)



2.8 低压熔断器 (LV Fuses)



#### 3 过电流保护

3.1 抑制浪涌电流NTC 热敏电阻器 (NTC)



#### 4 过温保护

4.1 温度保险丝 (ATCO)-合金型

#### 过电压保护

4.2 气体放电管 (GDT)



#### 5 过电流保护

5.1 小型熔断器 (Mini Fuses)



5.2 低压熔断器 (LV Fuses)



#### 6 过电压保护

6.1 热保护型压敏电阻 (TFMOV)-机械脱扣型



#### 7 过温保护

7.1 温度保险丝 (ATCO)-合金型

#### 8 过电压保护

8.1 瞬态电压抑制二极管 (TVS)



8.2 静电电阻抗器 (ESD TVS)



#### 9 过电压保护

9.1 瞬态电压抑制二极管 (TVS)



9.2 静电电阻抗器 (ESD TVS)



# 赛尔特产品特色与特点

## AC+DC 充电桩保护

防护点	名称	系列	特色	特点	
1	SPD 电涌保护器	<ul style="list-style-type: none"> <li>SD25TxxxA404</li> <li>SD20(30)R</li> </ul>	<ul style="list-style-type: none"> <li>过温保护设计, 高可靠性</li> <li>可插拔模块固定牢靠</li> <li>通流量高</li> <li>类和II类电涌保护器, 满足IEC/EN 61643-11、UL1449标准</li> <li>多种保护模式可选</li> </ul>	<ul style="list-style-type: none"> <li>标称放电电流(<math>I_n</math>): (20 ~ 30) kA, 冲击放电电流(<math>I_{imp}</math>): (11 ~ 12.5) kA</li> <li>最大连续工作电压(<math>U_c</math>): (150 ~ 1300) VAC</li> <li>额定短路电流ISCCR可达25 kA</li> <li>IP20外壳防护等级</li> <li>适应 (0 ~ 5000) M海拔工作环境</li> </ul>	
		了解更多信息, 请点击官网链接 SD25TxxxA404: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA404-series-3PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA404-series-3PN.html</a> SD20(30)R: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD20-30R-series-3PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD20-30R-series-3PN.html</a>			
2	*ATCO 温度保险丝-合金型	<ul style="list-style-type: none"> <li>Y</li> <li>C</li> <li>S</li> <li>U</li> <li>T</li> <li>R</li> </ul>	<ul style="list-style-type: none"> <li>一次性过温保护</li> <li>断开温度精确, 可定制</li> <li>密封结构、高可靠性</li> <li>低阻抗</li> <li>满足RoHS &amp; REACH环保要求</li> <li>符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li><math>T_r</math>: (76 ~ 230) °C</li> <li><math>I_r</math>: (5 ~ 200) A</li> <li><math>U_r</math>: (125 ~ 800) VAC, (50 ~ 200) VDC</li> </ul>	
		了解更多信息, 请点击官网链接 Y: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html</a> C: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html</a> S: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html</a> U: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html</a> T: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html</a> R: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html</a>			
		<ul style="list-style-type: none"> <li>SPCL10</li> <li>SPCL6</li> <li>SPCL3</li> <li>SPCL1</li> <li>30KPA</li> <li>SMCJ</li> <li>SMDJ</li> <li>5.0SMDJ</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>高可靠性玻璃钝化保护</li> <li>低钳位电压</li> <li>精确导通, 超低漏流</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>标称浪涌功率: (600 ~ 30000) W</li> <li>8/20<math>\mu</math>s能力: (1 ~ 20) kA</li> <li>超宽工作温度范围: (-55 ~ +175) °C</li> <li>低残压比 &lt; 1.3</li> <li>ns (纳秒) 级响应速度</li> <li>具备插件与贴片封装形式</li> </ul>	
了解更多信息, 请点击官网链接 SPCL10: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html</a> SPCL6: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html</a> SPCL3: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html</a> SPCL1: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html</a> 30KPA: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html</a> SMCJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html</a> SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html</a> 5.0SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html</a>					
	GDT 气体放电管	<ul style="list-style-type: none"> <li>SPB351H</li> <li>SPB601H</li> <li>SPB801H</li> <li>SPJ351D</li> <li>SPJ601D</li> <li>SPA351D</li> <li>SPA601D</li> <li>SPA801D</li> </ul>	<ul style="list-style-type: none"> <li>满足高压交流侧的N-PE浪涌大电流冲击, 且能减少其他器件的老化</li> <li>具有高电压、大通流、低残压、小体积</li> <li>满足客户定制要求</li> </ul>	<ul style="list-style-type: none"> <li>直流击穿电压: (350 ~ 1000) V</li> <li>8/20<math>\mu</math>s浪涌能力20 KA以上</li> <li>较强续流遮断能力</li> <li>安装方式: 插件和模块要求</li> </ul>	
		了解更多信息, 请点击官网链接 SPB351H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html</a> SPB601H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html</a> SPB801H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html</a> SPJ351D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html</a> SPJ601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html</a> SPA351D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html</a> SPA601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html</a> SPA801D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html</a>			

\*: 用于压敏电阻劣化失效的过热保护

# 赛尔特产品特色与特点

## AC+DC 充电桩保护

防护点	名称	系列	特色	特点
2	MOV 压敏电阻	<ul style="list-style-type: none"> <li>• SFV10D</li> <li>• SFV14D</li> <li>• SFV20D</li> </ul>	<ul style="list-style-type: none"> <li>• 低限制电压</li> <li>• 高浪涌抑制能力</li> <li>• 上限工作温度可达105 °C &amp; 125 °C</li> <li>• 满足高温高湿环境长期可靠性工作</li> <li>• 符合IEC62368标准要求</li> </ul>	<ul style="list-style-type: none"> <li>• 通流容量: (3.5 ~ 10) kA</li> <li>• 浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>• 最大交流工作电压: (130 ~ 750) V</li> <li>• 最大直流工作电压: (170 ~ 990) V</li> </ul>
		了解更多信息, 请点击官网链接 SFV10D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html</a> SFV14D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html</a> SFV20D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html</a>		
	TFV 热保护型压敏电阻 -环氧封装型	<ul style="list-style-type: none"> <li>• TFV8S</li> <li>• TFV10S</li> <li>• TFV15S</li> </ul>	<ul style="list-style-type: none"> <li>• 不用变更PCB设计即可增加热保护功能</li> <li>• 通过IEC62368.1 G8.2过载测试认证</li> <li>• 符合UL1449标准要求</li> <li>• 上限工作温度可达105 °C</li> </ul>	<ul style="list-style-type: none"> <li>• 通流容量: (3.5 ~ 10) kA</li> <li>• 浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>• 最大交流工作电压: (130 ~ 510) V</li> <li>• 最大直流工作电压: (170 ~ 670) V</li> </ul>
		了解更多信息, 请点击官网链接 TFV8S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html</a> TFV10S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html</a> TFV15S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html</a>		
	TFMOV 热保护型压敏电阻 -机械脱扣型	<ul style="list-style-type: none"> <li>• TFMOV10M</li> </ul>	<ul style="list-style-type: none"> <li>• 过温保护设计, 高可靠性</li> <li>• 体积小, PCB安装</li> <li>• 通流量高</li> <li>• 采用机械脱扣, 响应时间快, 动作可靠</li> <li>• 满足IEC/EN 61643-11、61643-31、UL1449标准</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级的响应时间</li> <li>• V0阻燃级外壳</li> <li>• 标称放电电流可达10 kA</li> <li>• 最大放电电流(<math>I_{max}</math>): 25 kA</li> </ul>
		了解更多信息, 请点击官网链接 TFMOV10M: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html</a>		
Mini Fuses 小型熔断器	<ul style="list-style-type: none"> <li>• SCF632(P)</li> </ul>	<ul style="list-style-type: none"> <li>• 小尺寸</li> <li>• 低温升</li> <li>• 低功耗</li> <li>• 连接可靠</li> <li>• 交直流通用</li> <li>• 具有多电压参数</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方式可选</li> </ul>	<ul style="list-style-type: none"> <li>• 尺寸: <math>\varnothing 6.36 \times 31.8</math> mm</li> <li>• 额定电压 (<math>U_n</math>): (250 ~ 600) VAC / VDC</li> <li>• 额定电流 (<math>I_n</math>): (0.4 ~ 30) A</li> <li>• 高分断: 10 kA@600 VAC (<math>\leq 12.5</math> A) 50 kA@600 VDC (<math>\leq 12.5</math> A) 1000 A@600 VAC / VDC (15 ~ 30 A)</li> <li>• 可ms (毫秒) 级熔断</li> <li>• 中等 <math>I^2t</math></li> <li>• 电路板上焊接安装或管夹安装</li> </ul>	
	了解更多信息, 请点击官网链接 SCF632(P): <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html</a>			
LV Fuses 低压熔断器	<ul style="list-style-type: none"> <li>• LFR00-690AC XXXA-BB80</li> </ul>	<ul style="list-style-type: none"> <li>• 大功率交流侧专用</li> <li>• 安装端子可选</li> <li>• ms (毫秒) 级熔断</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC, 最大电流到630 A</li> <li>• 带端子螺栓连接, 触刀底座安装, 平板螺栓连接</li> <li>• 快断型</li> </ul>	
	了解更多信息, 请联系销售人员			
	<ul style="list-style-type: none"> <li>• LFR15- XXXA06BT</li> </ul>	<ul style="list-style-type: none"> <li>• 交直流可用</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方便</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC / 500 VDC</li> <li>• 额定电流(<math>I_n</math>): (10 ~ 100) A</li> <li>• 快断型</li> <li>• 螺栓连接</li> </ul>	
了解更多信息, 请联系销售人员				
3 NTC 抑制浪涌电流NTC 热敏电阻器	<ul style="list-style-type: none"> <li>• D-15</li> <li>• D-20</li> <li>• D-25</li> <li>• D-30</li> </ul>	<ul style="list-style-type: none"> <li>• 高稳定电气特性</li> </ul>	<ul style="list-style-type: none"> <li>• 体积小</li> <li>• 工作温度范围-40 °C 至 175 °C</li> <li>• 抑制浪涌能力强</li> <li>• 材料常数 (B值) 大, 残余电阻小</li> </ul>	
	了解更多信息, 请点击官网链接 D-15: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html</a> D-20: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html</a> D-25: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html</a> D-30: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html</a>			

# 赛尔特产品特色与特点

## AC+DC 充电桩保护

防护点	名称	系列	特色	特点		
4	ATCO 温度保险丝-合金型	• JB	<ul style="list-style-type: none"> <li>• 一次性过温保护</li> <li>• 断开温度精确, 可定制</li> <li>• 密封结构、高可靠性</li> <li>• 低阻抗</li> <li>• 满足RoHS &amp; REACH环保要求</li> <li>• 符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li>• 内置弹簧分断结构</li> <li>• 快速响应, ms (毫秒) 级熔断</li> <li>• <math>T_f</math>: (76 ~ 187) °C</li> <li>• <math>I_r</math>: (5 ~ 40) A</li> <li>• <math>U_r</math>: (125 ~ 380) VAC, (50 ~ 1000) VDC</li> </ul>		
	GDT 气体放电管	<ul style="list-style-type: none"> <li>• SE</li> <li>• SC</li> <li>• SF (高压)</li> </ul>	<ul style="list-style-type: none"> <li>• 满足高压交流侧的N-PE浪涌大电流冲击, 且能减少其他器件的老化</li> <li>• 防止瞬态高压通过充电桩对设备或人体触电</li> </ul>	<ul style="list-style-type: none"> <li>• 直流击穿电压: (350 ~ 3600) V</li> <li>• 安装方式: 插件或贴片要求</li> <li>• 体积小, 安装空间小</li> </ul>		
<p>了解更多信息, 请联系销售人员</p> <p>了解更多信息, 请点击官网链接</p> <p>SE: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SE-series.html</a></p> <p>SC: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SC-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SC-series.html</a></p> <p>SF: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SF-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SF-series.html</a></p>						
5	Mini Fuses 小型熔断器	• SCF632(P)	<ul style="list-style-type: none"> <li>• 小尺寸</li> <li>• 低温升</li> <li>• 低功耗</li> <li>• 连接可靠</li> <li>• 交直流通用</li> <li>• 具有多电压参数</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方式可选</li> </ul>	<ul style="list-style-type: none"> <li>• 尺寸: <math>\varnothing 6.36 \times 31.8</math> mm</li> <li>• 额定电压 (<math>U_n</math>): (250 ~ 600) VAC / VDC</li> <li>• 额定电流 (<math>I_n</math>): (0.4 ~ 30) A</li> <li>• 高分断: 10 kA@600 VAC (<math>\leq 12.5</math> A) 50 kA@600 VDC (<math>\leq 12.5</math> A) 1000 A@600 VAC / VDC (15 ~ 30 A)</li> <li>• 可ms (毫秒) 级熔断</li> <li>• 中等 <math>I^2t</math></li> <li>• 电路上焊接安装或管夹安装</li> </ul>		
	<p>了解更多信息, 请点击官网链接</p> <p>SCF632(P): <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html</a></p>					
	LV Fuses 低压熔断器	• LFR5A XXXA500V	<ul style="list-style-type: none"> <li>• 直流专用</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方便</li> <li>• 电木壳体熔断器</li> <li>• 端电极一体化设计</li> <li>• 超薄设计</li> <li>• 极简设计</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 500 VDC</li> <li>• 额定电流(<math>I_n</math>): (100 ~ 400) A</li> <li>• 快断型</li> <li>• 螺栓连接</li> <li>• 分断能力30 kA</li> <li>• 端电极具有高的抗拉抗压抗弯折性能</li> <li>• 适合狭窄空间安装</li> <li>• 高性价比产品</li> </ul>		
		<p>了解更多信息, 请联系销售人员</p>				
		• LFR15- XXXA06BT	<ul style="list-style-type: none"> <li>• 交直流可用</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方便</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC / 500 VDC,</li> <li>• 额定电流(<math>I_n</math>): (10 ~ 100) A</li> <li>• 快断型</li> <li>• 螺栓连接</li> </ul>		
<p>了解更多信息, 请联系销售人员</p>						
• LFR20- XXXA07-BT	<ul style="list-style-type: none"> <li>• 直流专用</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方便</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 750 VDC</li> <li>• 额定电流(<math>I_n</math>): (50 ~ 200) A</li> <li>• 快断型</li> <li>• 螺栓连接</li> </ul>				
<p>了解更多信息, 请联系销售人员</p>						
• LFR24- XXXA10-BT	<ul style="list-style-type: none"> <li>• 直流专用</li> <li>• ms (毫秒) 级熔断</li> <li>• 高强度复合管</li> <li>• 安装方便</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 1000 VDC</li> <li>• 额定电流(<math>I_n</math>): (80 ~ 350) A</li> <li>• 快断型</li> <li>• 三聚氰胺玻璃纤维布复合管</li> <li>• 螺栓连接</li> </ul>				
<p>了解更多信息, 请联系销售人员</p>						

# 赛尔特产品特色与特点

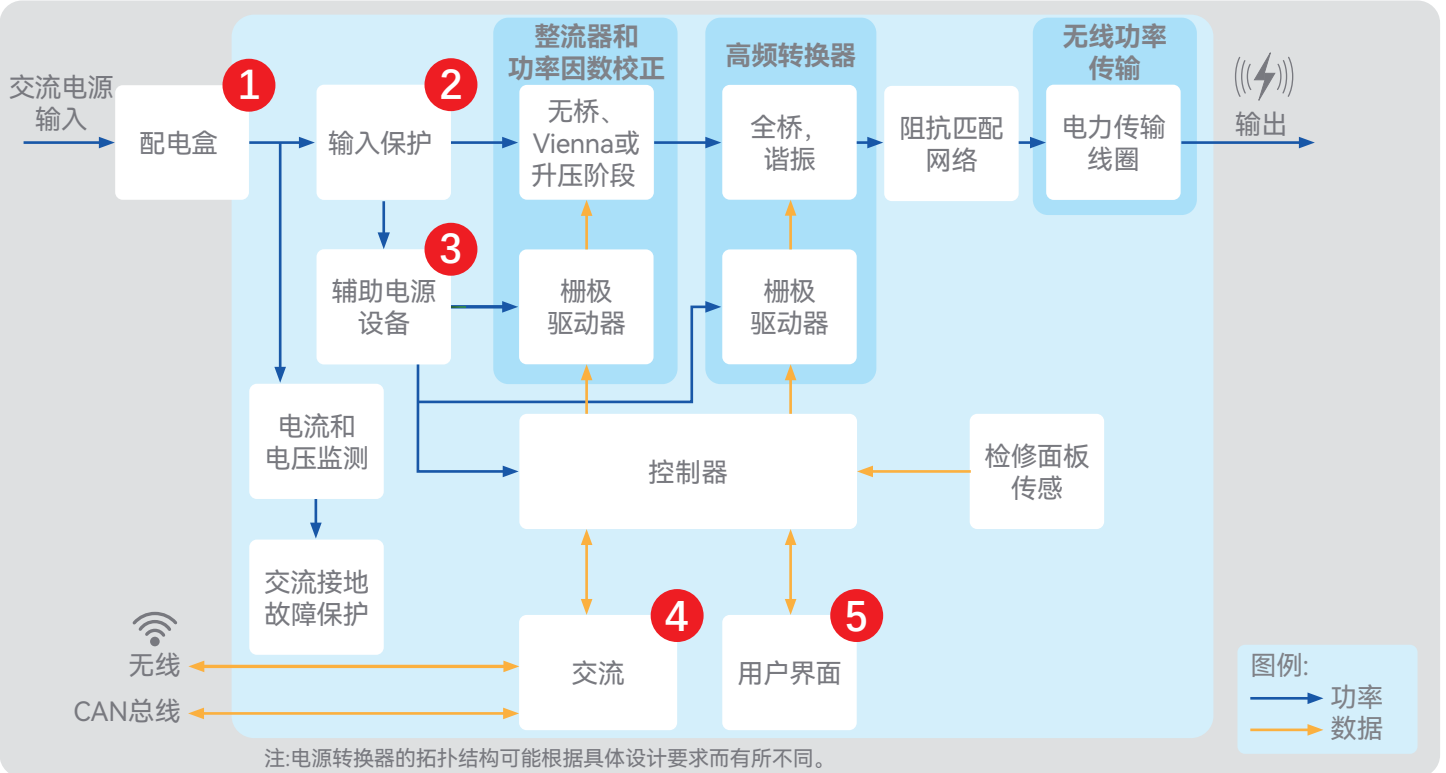
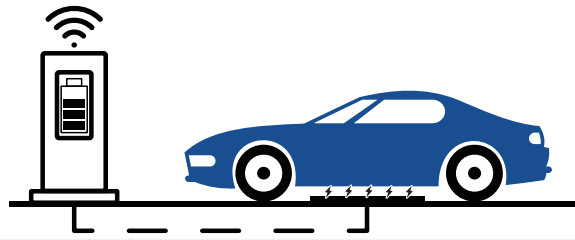
## AC+DC 充电桩保护

防护点	名称	系列	特色	特点
6	TFMOV 热保护型压敏电阻 -机械脱扣型	• TFMOV10M	<ul style="list-style-type: none"> <li>过温保护设计, 高可靠性</li> <li>体积小巧, PCB安装</li> <li>通流量高</li> <li>采用机械脱扣, 响应时间快, 动作可靠</li> <li>满足IEC/EN 61643-11、61643-31、UL1449标准</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级的响应时间</li> <li>V0阻燃级外壳</li> <li>标称放电电流可达10 kA</li> <li>最大放电电流(<math>I_{max}</math>): 25 kA</li> </ul>
		了解更多信息, 请点击官网链接 TFMOV10M: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html</a>		
7	ATCO 温度保险丝-合金型	• JB	<ul style="list-style-type: none"> <li>一次性过温保护</li> <li>断开温度精确, 可定制</li> <li>密封结构、高可靠性</li> <li>低阻抗</li> <li>满足RoHS &amp; REACH环保要求</li> <li>符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li>内置弹簧分断结构</li> <li>快速响应, ms (毫秒) 级熔断</li> <li><math>T_f</math>: (76 ~ 187) °C</li> <li><math>I_f</math>: (5 ~ 40) A</li> <li><math>U_f</math>: (125 ~ 380) VAC, (50 ~ 1000) VDC</li> </ul>
		了解更多信息, 请联系销售人员		
8	TVS 瞬态电压抑制二极管	• SMF • SMAJ • SMBJ	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>高可靠性玻璃钝化保护</li> <li>低钳位电压</li> <li>精确导通, 超低漏流</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>标称浪涌功率: 200 W, 400 W, 600 W</li> <li>超宽工作温度范围: (-55 ~ +175) °C</li> <li>低残压比: &lt; 1.3</li> <li>ns (纳秒) 级响应速度</li> <li>贴片封装形式</li> </ul>
		了解更多信息, 请点击官网链接 SMF: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html</a> SMAJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html</a> SMBJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html</a>		
	ESD TVS 静电电阻抗器	• GSM24CCAN • SD2403T23L	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>双路双向ESD &amp; EOS防护</li> <li>精确导通, 超低漏流</li> <li>低电容 &amp; 低残压</li> <li>非退化性, 不会疲劳</li> <li>满足AEC-Q101要求</li> </ul>	<ul style="list-style-type: none"> <li>满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>最大浪涌功率: 350 W @8/20 <math>\mu</math>s</li> <li>低电容水平: 13 pF</li> <li>低钳位电压: VC &lt; 35 V at IPP = 1 A</li> <li>超低漏电流: 小于1 <math>\mu</math>A</li> </ul>
了解更多信息, 请点击官网链接 GSM24CCAN: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/GSM24CCAN-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/GSM24CCAN-series.html</a> SD2403T23L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD2403T23L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD2403T23L-series.html</a>				
9	TVS 瞬态电压抑制二极管	• SMF • SMAJ • SMBJ	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>高可靠性玻璃钝化保护</li> <li>低钳位电压</li> <li>精确导通, 超低漏流</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>标称浪涌功率: 200 W, 400 W, 600 W</li> <li>超宽工作温度范围: (-55 ~ +175) °C</li> <li>低残压比: &lt; 1.3</li> <li>ns (纳秒) 级响应速度</li> <li>贴片封装形式</li> </ul>
		了解更多信息, 请点击官网链接 SMF: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html</a> SMAJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html</a> SMBJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html</a>		
	ESD TVS 静电电阻抗器	• SD0504F10L • SD0520F10L	<ul style="list-style-type: none"> <li>超小尺寸</li> <li>ns (纳秒) 级快速响应</li> <li>双向ESD &amp; EOS防护</li> <li>精确导通, 超低漏流</li> <li>低电容 &amp; 低残压</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>最大浪涌功率: 400 W @8/20 <math>\mu</math>s</li> <li>低电容水平: 15 pF</li> <li>低钳位电压: VC &lt; 10 V at IPP = 1 A</li> <li>超低漏电流: 小于1 <math>\mu</math>A</li> </ul>
了解更多信息, 请点击官网链接 SD0504F10L: 请联系销售人员 SD0520F10L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD0520F10L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD0520F10L-series.html</a>				



# 赛尔特产品在充电桩中的安全应用

## 无线充电桩保护



## 赛尔特产品

- 1 过电压保护**
  - 1.1 电涌保护器 (SPD)
- 3 过电流保护**
  - 3.1 抑制浪涌电流NTC 热敏电阻器 (NTC)
- 4 过电压保护**
  - 4.1 瞬态电压抑制二极管 (TVS)
  - 4.2 静电阻抗器 (ESD TVS)
- 5 过电压保护**
  - 5.1 瞬态电压抑制二极管 (TVS)
  - 5.2 静电阻抗器 (ESD TVS)

- 2 过温保护**
  - 2.1 温度保险丝 (ATCO)-合金型
- 过电压保护**
  - 2.2 瞬态电压抑制二极管 (TVS)
  - 2.3 气体放电管 (GDT)
  - 2.4 压敏电阻 (MOV)
  - 2.5 热保护型压敏电阻 (TFV)-环氧包封型
  - 2.6 热保护型压敏电阻 (TFMOV)-机械脱扣型
- 过电流保护**
  - 2.7 小型熔断器 (Mini Fuses)
  - 2.8 低压熔断器 (LV Fuses)

# 赛尔特产品特色与特点

## 无线充电桩保护

防护点	名称	系列	特色	特点	
1	SPD 电涌保护器	<ul style="list-style-type: none"> <li>SD25TxxxA404</li> <li>SD20(30)R</li> </ul>	<ul style="list-style-type: none"> <li>过温保护设计, 高可靠性</li> <li>可插拔模块固定牢靠</li> <li>通流量高</li> <li>类和II类电涌保护器, 满足IEC/EN 61643-11、UL1449标准</li> <li>多种保护模式可选</li> </ul>	<ul style="list-style-type: none"> <li>标称放电电流(<math>I_n</math>): (20 ~ 30) kA, 冲击放电电流(<math>I_{imp}</math>): (11 ~ 12.5) kA</li> <li>最大连续工作电压(<math>U_c</math>): (150 ~ 1300) VAC</li> <li>额定短路电流ISCCR可达25 kA</li> <li>IP20外壳防护等级</li> <li>适应 (0 ~ 5000) M海拔工作环境</li> </ul>	
		了解更多信息, 请点击官网链接 SD25TxxxA404: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA404-series-3PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD25TxxxA404-series-3PN.html</a> SD20(30)R: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD20-30R-series-3PN.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/SPD-Low-voltage-Power-Systems/SD20-30R-series-3PN.html</a>			
2	*ATCO 温度保险丝-合金型	<ul style="list-style-type: none"> <li>Y</li> <li>C</li> <li>S</li> <li>U</li> <li>T</li> <li>R</li> </ul>	<ul style="list-style-type: none"> <li>一次性过温保护</li> <li>断开温度精确, 可定制</li> <li>密封结构、高可靠性</li> <li>低阻抗</li> <li>满足RoHS &amp; REACH环保要求</li> <li>符合IEC60691标准要求</li> </ul>	<ul style="list-style-type: none"> <li><math>T_r</math>: (76 ~ 230) °C</li> <li><math>I_r</math>: (5 ~ 200) A</li> <li><math>U_r</math>: (125 ~ 800) VAC, (50 ~ 200) VDC</li> </ul>	
		了解更多信息, 请点击官网链接 Y: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html</a> C: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html</a> S: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html</a> U: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html</a> T: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html</a> R: <a href="https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html">https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html</a>			
		<ul style="list-style-type: none"> <li>SPCL10</li> <li>SPCL6</li> <li>SPCL3</li> <li>SPCL1</li> <li>30KPA</li> <li>SMCJ</li> <li>SMDJ</li> <li>5.0SMDJ</li> </ul>	<ul style="list-style-type: none"> <li>ns (纳秒) 级快速响应</li> <li>高可靠性玻璃钝化保护</li> <li>低钳位电压</li> <li>精确导通, 超低漏流</li> <li>非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>标称浪涌功率: (600 ~ 30000) W</li> <li>8/20<math>\mu</math>s能力: (1 ~ 20) kA</li> <li>超宽工作温度范围: (-55 ~ +175) °C</li> <li>低残压比 &lt; 1.3</li> <li>ns (纳秒) 级响应速度</li> <li>具备插件与贴片封装形式</li> </ul>	
了解更多信息, 请点击官网链接 SPCL10: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL10-series.html</a> SPCL6: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL6-series.html</a> SPCL3: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL3-series.html</a> SPCL1: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SPCL1-series.html</a> 30KPA: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/30KPA-series.html</a> SMCJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMCJ-series.html</a> SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMDJ-series.html</a> 5.0SMDJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/5.0SMDJ-series.html</a>					
	GDT 气体放电管	<ul style="list-style-type: none"> <li>SPB351H</li> <li>SPB601H</li> <li>SPB801H</li> <li>SPJ351D</li> <li>SPJ601D</li> <li>SPA351D</li> <li>SPA601D</li> <li>SPA801D</li> </ul>	<ul style="list-style-type: none"> <li>满足高压交流侧的N-PE浪涌大电流冲击, 且能减少其他器件的老化</li> <li>具有高电压、大通流、低残压、小体积</li> <li>满足客户定制要求</li> </ul>	<ul style="list-style-type: none"> <li>直流击穿电压: (350 ~ 1000) V</li> <li>8/20<math>\mu</math>s浪涌能力20 KA以上</li> <li>较强续流遮断能力</li> <li>安装方式: 插件和模块要求</li> </ul>	
		了解更多信息, 请点击官网链接 SPB351H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html</a> SPB601H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html</a> SPB801H: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPB-series.html</a> SPJ351D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html</a> SPJ601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPJ-series.html</a> SPA351D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html</a> SPA601D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html</a> SPA801D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Gas-Discharge-Tube-GDT/SPA-series.html</a>			

\*: 用于压敏电阻劣化失效的过热保护

# 赛尔特产品特色与特点

## 无线充电桩保护

防护点	名称	系列	特色	特点
2	MOV 压敏电阻	<ul style="list-style-type: none"> <li>• SFV10D</li> <li>• SFV14D</li> <li>• SFV20D</li> </ul>	<ul style="list-style-type: none"> <li>• 低限制电压</li> <li>• 高浪涌抑制能力</li> <li>• 上限工作温度可达105 °C &amp; 125 °C</li> <li>• 满足高温高湿环境长期可靠性工作</li> <li>• 符合IEC62368标准要求</li> </ul>	<ul style="list-style-type: none"> <li>• 通流容量: (3.5 ~ 10) kA</li> <li>• 浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>• 最大交流工作电压: (130 ~ 750) V</li> <li>• 最大直流工作电压: (170 ~ 990) V</li> </ul>
		了解更多信息, 请点击官网链接 SFV10D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV10D-series.html</a> SFV14D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV14D-series.html</a> SFV20D: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Metal-Oxide-Varistor-MOV-and-MOV-Disk-Standard-Type/SFV20D-series.html</a>		
	TFV 热保护型压敏电阻 -环氧封装型	<ul style="list-style-type: none"> <li>• TFV8S</li> <li>• TFV10S</li> <li>• TFV15S</li> </ul>	<ul style="list-style-type: none"> <li>• 不用变更PCB设计即可增加热保护功能</li> <li>• 通过IEC62368.1 G8.2过载测试认证</li> <li>• 符合UL1449标准要求</li> <li>• 上限工作温度可达105 °C</li> </ul>	<ul style="list-style-type: none"> <li>• 通流容量: (3.5 ~ 10) kA</li> <li>• 浪涌冲击电压(<math>U_{oc}</math>): (4 ~ 10) kV</li> <li>• 最大交流工作电压: (130 ~ 510) V</li> <li>• 最大直流工作电压: (170 ~ 670) V</li> </ul>
		了解更多信息, 请点击官网链接 TFV8S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV8S-series.html</a> TFV10S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV10S-series.html</a> TFV15S: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermal-Fuse-Varistor-TFV/TFV15S-series.html</a>		
	TFMOV 热保护型压敏电阻 -机械脱扣型	<ul style="list-style-type: none"> <li>• TFMOV10M</li> </ul>	<ul style="list-style-type: none"> <li>• 过温保护设计, 高可靠性</li> <li>• 体积小, PCB安装</li> <li>• 通流量高</li> <li>• 采用机械脱扣, 响应时间快, 动作可靠</li> <li>• 满足IEC/EN 61643-11、61643-31、UL1449标准</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级的响应时间</li> <li>• V0阻燃级外壳</li> <li>• 标称放电电流可达10 kA</li> <li>• 最大放电电流(<math>I_{max}</math>): 25 kA</li> </ul>
		了解更多信息, 请点击官网链接 TFMOV10M: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Thermally-Protected-Varistors-TFMOV/TFMOV10M-series.html</a>		
Mini Fuses 小型熔断器	<ul style="list-style-type: none"> <li>• SCF632(P)</li> </ul>	<ul style="list-style-type: none"> <li>• 小尺寸</li> <li>• 低温升</li> <li>• 低功耗</li> <li>• 连接可靠</li> <li>• 交直流通用</li> <li>• 具有多电压参数</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方式可选</li> </ul>	<ul style="list-style-type: none"> <li>• 尺寸: <math>\varnothing 6.36 \times 31.8</math> mm</li> <li>• 额定电压 (<math>U_n</math>): (250 ~ 600) VAC / VDC</li> <li>• 额定电流 (<math>I_n</math>): (0.4 ~ 30) A</li> <li>• 高分断: 10 kA@600 VAC (<math>\leq 12.5</math> A) 50 kA@600 VDC (<math>\leq 12.5</math> A) 1000 A@600 VAC / VDC (15 ~ 30 A)</li> <li>• 可ms (毫秒) 级熔断</li> <li>• 中等 <math>I^2t</math></li> <li>• 电路板上焊接安装或管夹安装</li> </ul>	
	了解更多信息, 请点击官网链接 SCF632(P): <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Cartridge-Fuse-links-CFL/SCF632-and-SCF632P-series.html</a>			
LV Fuses 低压熔断器	<ul style="list-style-type: none"> <li>• LFR00-690AC XXXA-BB80</li> </ul>	<ul style="list-style-type: none"> <li>• 大功率交流侧专用</li> <li>• 安装端子可选</li> <li>• ms (毫秒) 级熔断</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC, 最大电流到630 A</li> <li>• 带端子螺栓连接, 触刀底座安装, 平板螺栓连接</li> <li>• 快断型</li> </ul>	
	了解更多信息, 请联系销售人员			
	<ul style="list-style-type: none"> <li>• LFR15- XXXA06BT</li> </ul>	<ul style="list-style-type: none"> <li>• 交直流可用</li> <li>• ms (毫秒) 级熔断</li> <li>• 安装方便</li> </ul>	<ul style="list-style-type: none"> <li>• 额定电压(V): 690 VAC / 500 VDC</li> <li>• 额定电流(<math>I_n</math>): (10 ~ 100) A</li> <li>• 快断型</li> <li>• 螺栓连接</li> </ul>	
了解更多信息, 请联系销售人员				
3 NTC 抑制浪涌电流NTC 热敏电阻器	<ul style="list-style-type: none"> <li>• D-15</li> <li>• D-20</li> <li>• D-25</li> <li>• D-30</li> </ul>	<ul style="list-style-type: none"> <li>• 高稳定电气特性</li> </ul>	<ul style="list-style-type: none"> <li>• 体积小</li> <li>• 工作温度范围-40 °C 至 175 °C</li> <li>• 抑制浪涌能力强</li> <li>• 材料常数 (B值) 大, 残余电阻小</li> </ul>	
	了解更多信息, 请点击官网链接 D-15: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-15-series.html</a> D-20: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-20-series.html</a> D-25: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-25-series.html</a> D-30: <a href="https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html">https://www.setsafe.cn/Products/Over-Current-Protection/Inrush-Current-Limiting-NTC-Thermistor-NTC/D-30-series.html</a>			

# 赛尔特产品特色与特点

## 无线充电桩保护

防护点	名称	系列	特色	特点
4	TVS 瞬态电压抑制二极管	<ul style="list-style-type: none"> <li>• SMF</li> <li>• SMAJ</li> <li>• SMBJ</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级快速响应</li> <li>• 高可靠性玻璃钝化保护</li> <li>• 低钳位电压</li> <li>• 精确导通, 超低漏流</li> <li>• 非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>• 标称浪涌功率: 200 W, 400 W, 600 W</li> <li>• 超宽工作温度范围: (-55 ~ +175) °C</li> <li>• 低残压比: &lt; 1.3</li> <li>• ns (纳秒) 级响应速度</li> <li>• 贴片封装形式</li> </ul>
		了解更多信息, 请点击官网链接 SMF: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html</a> SMAJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html</a> SMBJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html</a>		
5	ESD TVS 静电阻抗器	<ul style="list-style-type: none"> <li>• GSM24CCAN</li> <li>• SD2403T23L</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级快速响应</li> <li>• 双路双向ESD &amp; EOS防护</li> <li>• 精确导通, 超低漏流</li> <li>• 低电容 &amp; 低残压</li> <li>• 非退化性, 不会疲劳</li> <li>• 满足AEC-Q101要求</li> </ul>	<ul style="list-style-type: none"> <li>• 满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>• 最大浪涌功率: 350 W @8/20 μs</li> <li>• 低电容水平: 13 pF</li> <li>• 低钳位电压: VC &lt; 35 V at IPP = 1 A</li> <li>• 超低漏电流: 小于1 μA</li> </ul>
		了解更多信息, 请点击官网链接 GSM24CCAN: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/GSM24CCAN-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/GSM24CCAN-series.html</a> SD2403T23L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD2403T23L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD2403T23L-series.html</a>		
5	TVS 瞬态电压抑制二极管	<ul style="list-style-type: none"> <li>• SMF</li> <li>• SMAJ</li> <li>• SMBJ</li> </ul>	<ul style="list-style-type: none"> <li>• ns (纳秒) 级快速响应</li> <li>• 高可靠性玻璃钝化保护</li> <li>• 低钳位电压</li> <li>• 精确导通, 超低漏流</li> <li>• 非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>• 标称浪涌功率: 200 W, 400 W, 600 W</li> <li>• 超宽工作温度范围: (-55 ~ +175) °C</li> <li>• 低残压比: &lt; 1.3</li> <li>• ns (纳秒) 级响应速度</li> <li>• 贴片封装形式</li> </ul>
		了解更多信息, 请点击官网链接 SMF: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMF-series.html</a> SMAJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMAJ-series.html</a> SMBJ: <a href="https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html">https://www.setsafe.cn/Products/Over-Voltage-Protection/Transient-Voltage-Suppression-Diodes-TVS/SMBJ-series.html</a>		
5	ESD TVS 静电阻抗器	<ul style="list-style-type: none"> <li>• SD0504F10L</li> <li>• SD0520F10L</li> </ul>	<ul style="list-style-type: none"> <li>• 超小尺寸</li> <li>• ns (纳秒) 级快速响应</li> <li>• 双向ESD &amp; EOS防护</li> <li>• 精确导通, 超低漏流</li> <li>• 低电容 &amp; 低残压</li> <li>• 非退化性, 不会疲劳</li> </ul>	<ul style="list-style-type: none"> <li>• 满足IEC 61000-4-2 Level 4, 空气及接触放电: 30 kV</li> <li>• 最大浪涌功率: 400 W @8/20 μs</li> <li>• 低电容水平: 15 pF</li> <li>• 低钳位电压: VC &lt; 10 V at IPP = 1 A</li> <li>• 超低漏电流: 小于1 μA</li> </ul>
		了解更多信息, 请点击官网链接 SD0504F10L: 请联系销售人员 SD0520F10L: <a href="https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD0520F10L-series.html">https://www.setsafe.cn/Product/Over-Voltage-Protection/ESD-TVS-Diode-Arrays/SD0520F10L-series.html</a>		

# 赛尔特 能为你提供什么

www.SETsafe.com    www.SETfuse.com

## 制造电路控制及安全保护元器件 提供电路安全解决方案

赛尔特(SETsafe | SETfuse)2000年成立于中国厦门。产品销往40多个国家和地区，与世界500强的部分企业有深远的合作，首创、独创多个产品；拥有22年创新历史并获得多项世界专利。取得CCC、CQC、UL、cUL、cULus、VDE、TUV、PSE、KC、CE等认证，满足RoHS、REACH要求，获得IATF 16949、ISO 9001、ISO 14001、ISO 45001、GB/T 29490管理体系认证，参与多项电路保护元器件的国家、国际标准制定、修订；工业和信息化部专精特新“小巨人”企业（2022 - 2025年）；国家级高新技术企业连续4次获奖（2012 - 2024年）；2018年入选寻找中国制造隐形冠军厦门卷。

赛尔特(SETsafe | SETfuse)产品的主要应用市场：新能源、储能、通信、防雷器、电源、照明、家电、移动设备、医疗等用电设备市场。

赛尔特(SETsafe | SETfuse)帮助客户提高其产品的安全指数，在电路保护领域发挥着举足轻重的作用，致力于创建和维护卓越的客户关系。从产品设计、制造、销售到专业的客户服务支持，提供一站式服务。

更多信息请点击链接至官网了解：

<https://www.setsafe.cn/About-SETsafe-and-SETfuse/About-Us.html>



赛尔特工业园区大门



赛尔特工业园区

# 感谢你的选择 赛尔特的竞争优势

感谢你选择赛尔特品牌电路保护元器件与电路保护解决方案，我们致力于提供业界领先的产品与服务。

## 一站式服务 保护元器件类别齐全

可同时提供过温度、过电压、过电流、主动保护元器件与电路保护解决方案。

## 节约供应商认证成本

可同时提供多类别产品，减少供应商认证成本。

## 专注 专心 专业 专长

公司2000年成立至今只做电路保护元器件与电路保护解决方案。

## 工艺、设备的先进性

批量交货的产品都采用自动化生产。

## 质量有口皆碑

赛尔特面向全球客户提供相同质量的优质产品，在产品的一致性、可靠性数据方面有口皆碑，从公司成立至今，从未发生过因赛尔特产品引起的重大质量事故。电路保护元器件与电路保护方案选择赛尔特品牌，选择安心。

## 制造、运行管理智能化

采用国际级软件管理企业，运转产品制造过程。

## 政府奖项

- 工业和信息化部专精特新“小巨人”企业（2022 - 2025年）
- 国家级高新技术企业连续4次获奖（2012 - 2024年）
- 2018年入选寻找中国制造隐形冠军厦门卷
- 福建省企业技术中心认定
- 福建省科技小巨人企业
- 福建省第五批制造业单项冠军（产品）
- 福建省重点培育和发展的国际知名品牌企业

更多信息请访问赛尔特官网：

[www.SETsafe.com](http://www.SETsafe.com)

[www.SETfuse.com](http://www.SETfuse.com)

# 选择赛尔特电路保护元器件 让你安心

## 20+

超过20年的设计、制造、销售电路保护元器件

## 40+

40多个国家和地区的客户选择赛尔特品牌

## 自动化

自动化工序生产

## 500

世界500强企业选择品牌

## 测试中心

安全 准确 公正 高效

<https://www.setsafe.cn/Testing-Center-Laboratory.html>

## 1000+

超过1000项检测项目

## 300+

超过300套专业的检测设备

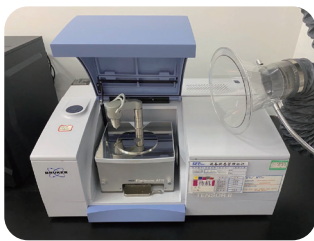
## 标准

具备UL & TUV、IEC、ITU、GB、YD标准的检测能力

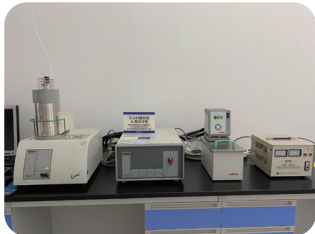
## WTDP

获得美国UL认可目击测试实验室  
德国TUV莱茵授权实验室资质

## 部分实验设备



实验室检测范围包括材料分析类、温度类、环境类、电学类、雷击类等试验，检测项目超过1000项。



具备IEC国际标准、EN欧洲标准、UL标准以及国家和行业标准的检测能力。

检测项目包括：标志试验、拉力试验、推力试验、爬电距离、电气间隙、电气强度、绝缘电阻、保持温度、动作温度、最高极限温度、老化试验、压敏电压、漏电流、耐电压、箝位电压等。

## 目击测试实验室 (WTDP)

<https://www.setsafe.cn/Testing-Center-Laboratory/Witnessed-Test-Data-Program-WTDP.html>



TUV 认可授权赛尔特实验室的检测能力范围包括以下标准：

- IEC 60127
- IEC 60539-1:2016
- IEC 60691:2015+A1
- EN 60691:2016+A1
- IEC 61051-1:2018
- EN IEC 61051-1:2018
- IEC 61051-2:1991+A1
- IEC 61051-2-2:1991
- IEC 62368-1:2020 Annex G.8
- EN IEC 62368-1:2020 Annex G.8
- EN 50539-11:2013+A1
- IEC 61643-11:2011
- EN 61643-11:2012+A11
- IEC 61643-21:2012
- EN 61643-21:2001+A1+A2
- IEC 61643-31:2018
- EN 61643-31:2018
- IEC61643-311



UL 认可授权赛尔特实验室的检测能力范围包括以下标准：

- UL 60691, CSA C22.2 NO.60691:19
- UL 1449, 第 5 版本, 发布日期 01/08/2021 (浪涌保护器)
- UL 1434, 第 1 版本, 修订日期 05/18/2020 (热敏电阻型器件)
- CSA 元件验收服务, T.I.L 类型 No.9073-31, 发布日期 07/09/1991
- CSA C22.2 No.269.5, 第 2 版本, 发布日期 09/2017 (浪涌保护器 - 类型 5 - 元件)
- CSA C22.2 No.269.4, 第 2 版本, 发布日期 03/2017 (浪涌保护器 - 类型 4- 器件)



# 部分荣誉

<https://www.setsafe.cn/About-SETsafe-SETfuse/Honor.html>

工业和信息化部专精特新“小巨人”企业（2022 - 2025 年）  
国家级高新技术企业连续 4 次获奖（2012 - 2024 年）  
2018 年入选寻找中国制造隐形冠军厦门卷

福建省企业技术中心认定  
福建省科技小巨人企业  
福建省首批重点上市后备企业  
福建省第五批制造业单项冠军（产品）  
福建省重点培育和发展的国际知名品牌企业

厦门市专精特新中小企业  
厦门市科技创新企业  
厦门市重点上市后备企业  
厦门市外贸出口自主品牌优秀企业



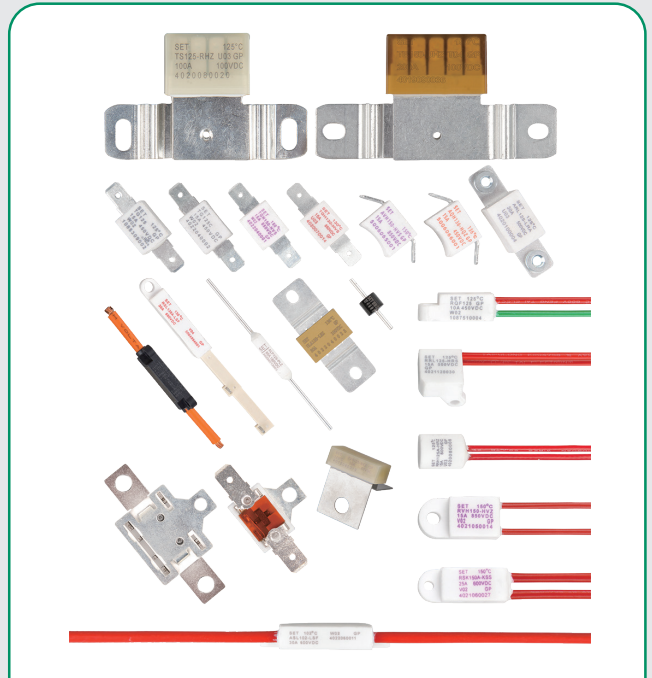
# 赛尔特电路保护元器件主要产品

## 过温度保护

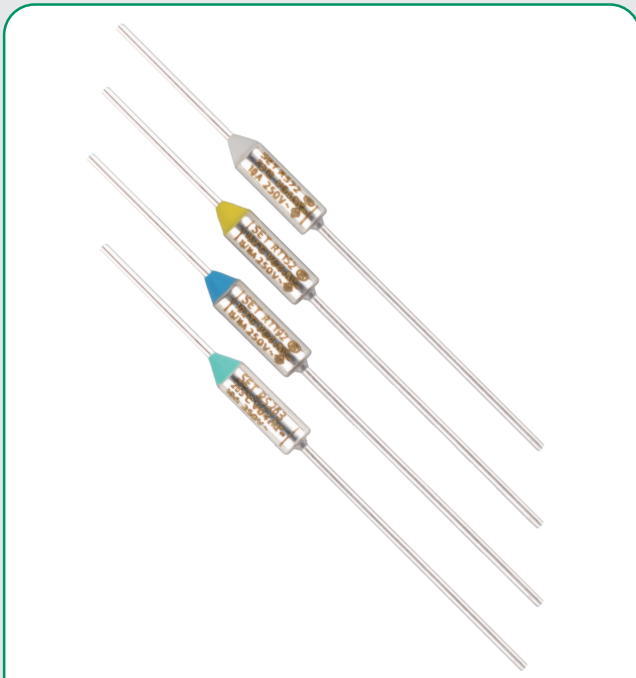
<https://www.setsafe.cn/Over-Temperature-Protection.html>



温度保险丝 (ATCO) | 合金型



温度保险丝 (DC-ATCO) | 直流合金型



温度保险丝 (OTCO) | 有机物型

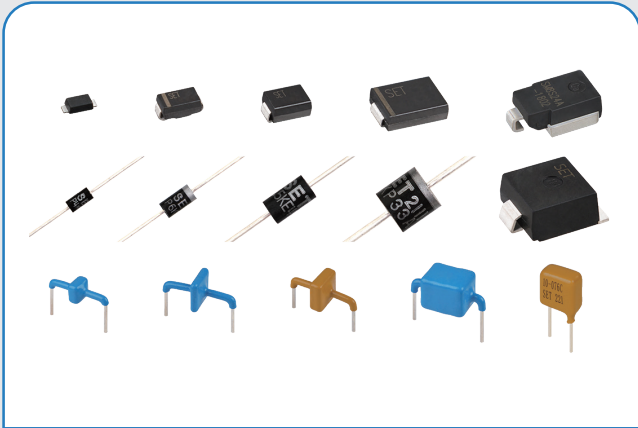


热保护器 (TMS) | 可复位

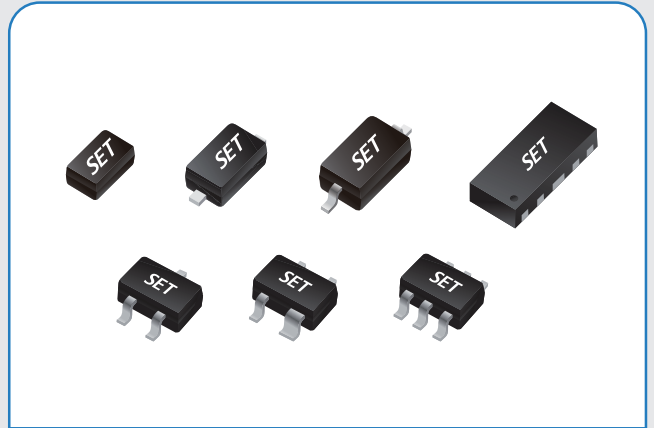
# 赛尔特电路保护元器件主要产品

## 过电压保护

<https://www.setsafe.cn/Products/Over-Voltage-Protection.html>



瞬态电压抑制二极管  
(TVS Diodes)



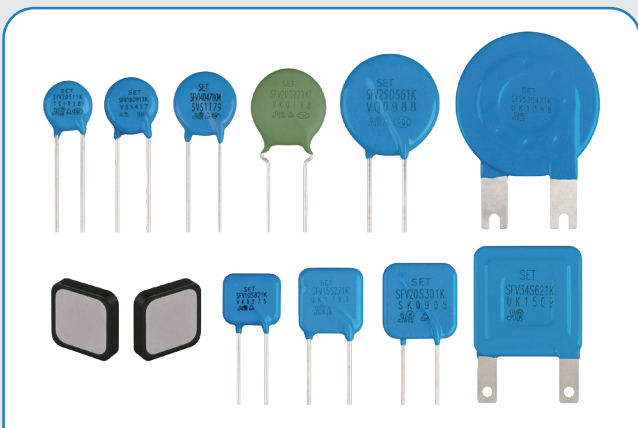
静电阻抗器  
(ESD TVS)



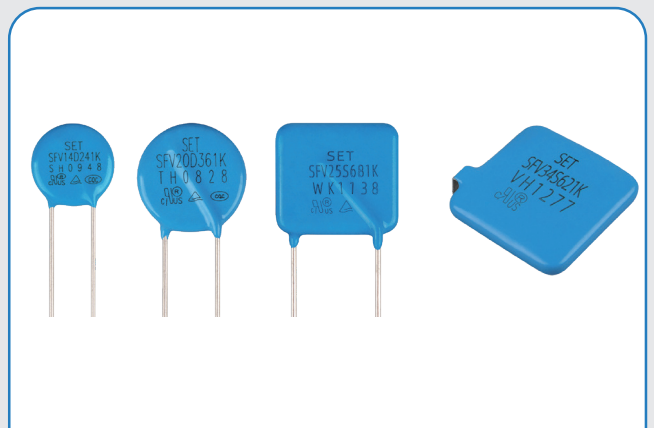
电涌抑制晶闸管  
(TSS)



气体放电管  
(GDT)



压敏电阻  
(MOV) & MOV芯片 | 标准型

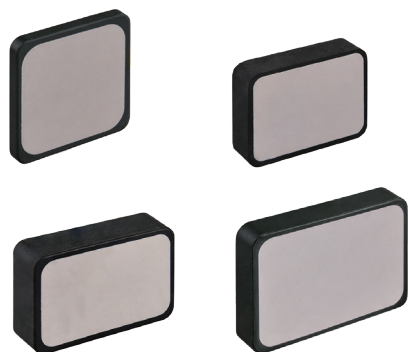


压敏电阻  
(MOV) | 高浪涌冲击型

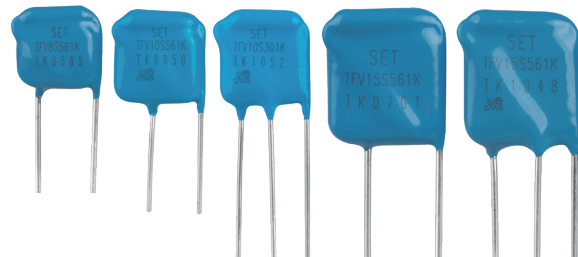
# 赛尔特电路保护元器件主要产品

## 过电压保护

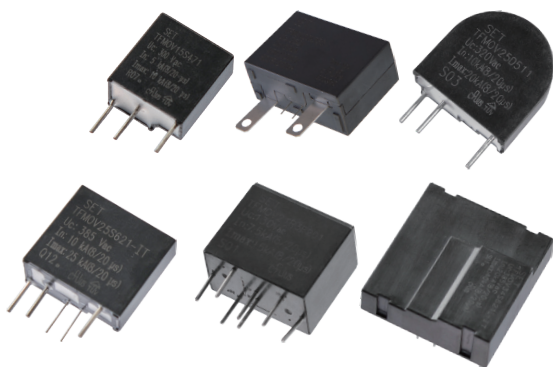
<https://www.setsafe.cn/Products/Over-Voltage-Protection.html>



压敏电阻芯片  
(MOV Disk) | T1防雷型



热保护型压敏电阻  
(TFMOV) | 环氧包封型



热保护型压敏电阻  
(TFMOV) | 熔断合金型



热保护型压敏电阻  
(TFMOV) | 机械脱扣型



电涌保护器模组  
(SPD-M)



电涌保护器  
(SPD) | 低压电源系统用

赛尔特电路保护元器件主要产品

# 过电压保护

<https://www.setsafe.cn/Products/Over-Voltage-Protection.html>



电涌保护器  
(SPD)

光伏系统用



电涌保护器  
(SPD)

户外照明用



电涌保护器  
(SPD)

信号网络用

# 赛尔特电路保护元器件主要产品

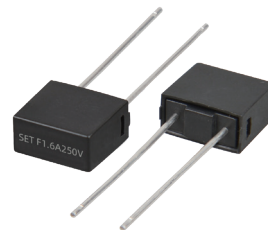
## 过电流保护

<https://www.setsafe.cn/Products/Over-Current-Protection.html>



小型熔断器  
(Mini Fuses)

管状熔断体  
(CFL)



小型熔断器  
(Mini Fuses)

超小型熔断体  
(SFL)

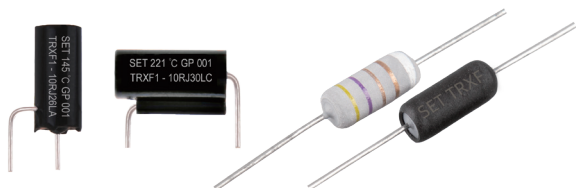


小型熔断器  
(Mini Fuses)

贴片熔断体  
(SMFL)



线绕熔断电阻器  
(RXF)



热保护型熔断电阻器  
(TRXF)

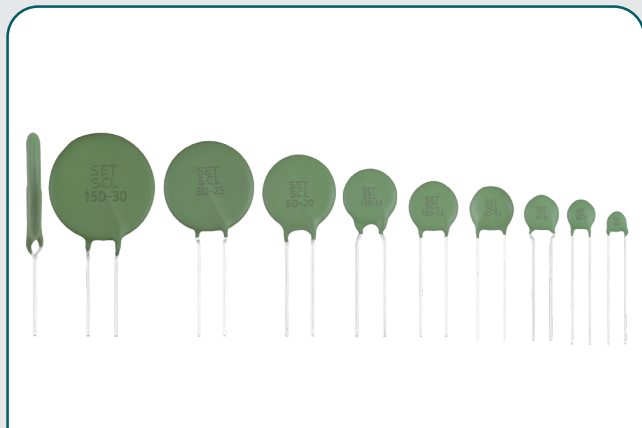


热保护型水泥电阻器  
(TPR)

## 赛尔特电路保护元器件主要产品

# 过电流保护

<https://www.setsafe.cn/Products/Over-Current-Protection.html>



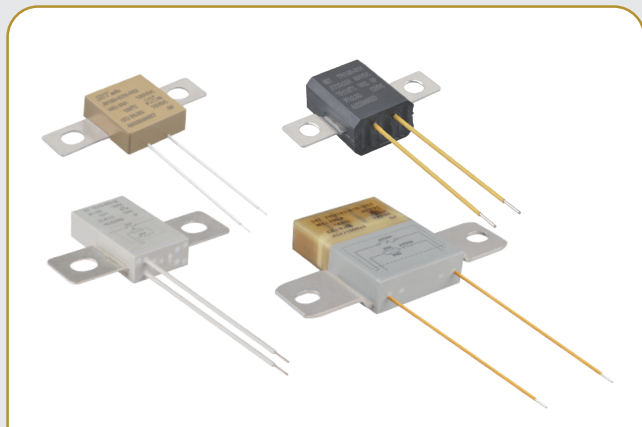
抑制浪涌电流NTC 热敏电阻器  
(NTC)



低压熔断器  
(LV Fuses)

## 主动保护

<https://www.setsafe.cn/Product/Active-Protections.html>



受控熔断器  
(ITCO)



热断保护器  
(TBP)

.END.

# 制造电路控制及安全保护元器件 提供电路安全解决方案

## 赛尔特官网、公众号



[www.SETsafe.com](http://www.SETsafe.com)  
[www.SETfuse.com](http://www.SETfuse.com)



官方公众号

## 赛尔特产品电子书



<https://www.setsafe.cn/Catalog/mobile/index.html>

## 赛尔特产品类别



过温度保护

<https://www.setsafe.cn/Over-Temperature-Protection.html>



过电压保护

<https://www.setsafe.cn/Products/Over-Voltage-Protection.html>



过电流保护

<https://www.setsafe.cn/Products/Over-Current-Protection.html>



主动保护

<https://www.setsafe.cn/Product/Active-Protections.html>

## 赛尔特产品目录下载



<https://www.setsafe.cn/Support/Datasheet-Download.html>

**SET safe | SET fuse**  
**赛尔特**

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翔安西路8067, 8001号

电话：0592 5715838

邮箱：sales@SETfuse.com