

浙光电气产品手册

PRODUCT MANUAL

High Voltage DC Contactor
高压直流接触器



COMPANY PROFILE

公司简介

15000m²

厂房占地面积
Factory area

5000m²

万级洁净车间
Class 10,000 clean workshop

2000,000⁺

年生产规模可达
Annual production scale can reach

浙光电气（浙江）有限公司是一家专注于电真空器件研发和生产的国家高新技术企业并荣获省“专精特新企业”称号。总部座落于浙江省级开发区---乐清经济开发区，占地面积15000平方米。公司核心产品真空灭弧室，固封极柱，真空直流开关，高压直流接触器。目前高压直流接触器已开发量产额定电流范畴从20A到1000A，电压从12Vdc到1500Vdc的产品，广泛应用电动汽车、燃料电池汽车、光伏发电、风力发电、云端服务器电源、电池充放电系统、直流电源控制及重工机械设备等高压直流领域，已具备年生产200万只以上高压直流接触器规模。

公司拥有一批原在国内著名电真空企业的高级专家及技术骨干，依托数十年的电真空产业基础、科技人才和高精设备，以自主创新的优势，打造高压直流产品基地。公司配套有5000平方万级洁净车间，所有产品从部件入厂到成品发货，人员、物料进出全程在洁净环境下，实时通过数据监测实现无尘洁净，从而确保产品性能的稳定、安全、耐用。产品通过3C、UL、TUV、CE等认证及ISO9001/ISO14001/OHSAS45001管理体系认证。围绕建立制造高压直流接触器的专家型企业为中心，制定了长远战略规划，构建“一体化产业链”布局：从原材料分析、模具研发设计、引进进口设备加工生产。实现自制全流程式生产。产品制造全程质量可控、交期可控，不断为客户创造价值。

浙光电气专注高压直流接触器，并以打造名牌产品为企业目标，以稳健的战略和严格的管理经营企业，以卓越的服务和优异的质量开拓市场，为顾客提供一流的产品和优质的服务。

Zhe Guang Electric (Zhejiang) Co., Ltd. is a national high-tech enterprise focusing on the research and development and production of electric vacuum devices and has won the title of "specialized, refined and innovative enterprise" in the province. The headquarters is located in the Zhejiang Provincial Development Zone---Yueqing Economic Development Zone, covering an area of 15,000 square meters. The company's core products are vacuum interrupters, sealed poles, vacuum DC switches, and high-voltage DC contactors. At present, high-voltage DC contactors have been developed and mass-produced with rated currents ranging from 20A to 1000A and voltages ranging from 12Vdc to 1500Vdc. They are widely used in high-voltage DC fields such as electric vehicles, fuel cell vehicles, photovoltaic power generation, wind power generation, cloud server power supplies, battery charging and discharging systems, DC power supply control and heavy industrial machinery and equipment. It has an annual production capacity of more than 2 million high-voltage DC contactors.

The company has a group of senior experts and technical backbones who were originally from well-known domestic electric vacuum enterprises. Relying on decades of electric vacuum industry foundation, scientific and technological talents and high-precision equipment, the company has built a high-voltage DC product base with the advantages of independent innovation. The company is equipped with a 5,000 square meter clean workshop. All products are in a clean environment from the entry of components to the delivery of finished products. Personnel and materials enter and exit in the clean environment. Real-time data monitoring is used to achieve dust-free cleaning, thereby ensuring the stability, safety and durability of product performance. The products have passed 3C, UL, TUV, CE and other certifications and ISO9001/ISO14001/OHSAS45001 management system certification. Focusing on the establishment of an expert enterprise for manufacturing high-voltage DC contactors, a long-term strategic plan has been formulated to build an "integrated industrial chain" layout: from raw material analysis, mold research and development design, to the introduction of imported equipment for processing and production. Self-made full-process production is achieved. The quality and delivery time of product manufacturing are controllable throughout the process, constantly creating value for customers.

Zhe Guang Electric focuses on high-voltage DC contactors, and takes the creation of famous brand products as its corporate goal. It operates the enterprise with a steady strategy and strict management, opens up the market with excellent service and excellent quality, and provides customers with first-class products and high-quality services.

QUALIFICATION CERTIFICATE

资质证书

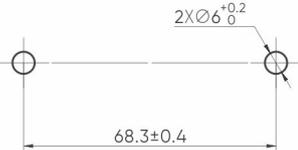
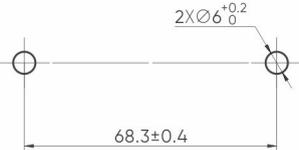
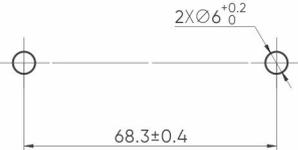


发明专利 | 外观设计专利 | 产品认证 | 质量管理体系认证
 Invention Patent | Design patent | Product Certification | Quality Management System Certification

高压直流接触器一览表

List of high voltage DC contactors

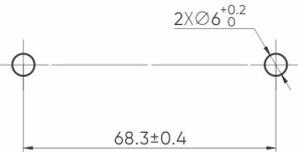
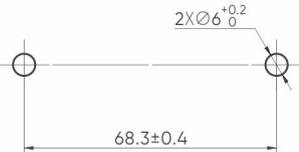
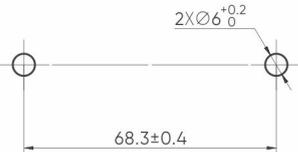
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-150	ZGC-200	ZGC-250
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~ 1000V	DC 12 ~ 1000V	DC 12 ~ 1000V
额定工作电流 Rated Working Current		150A	200A	250A
接触电阻 Contact resistance		≤0.5mΩ(at150A)	≤0.5mΩ(at200A)	≤0.5mΩ(at250A)
短时耐受电流 Short-time With Stand Current		1500A 5S、150A 持续(Sustain)	2000A 2S、200A 持续(Sustain)	2500A 1S、250A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V DC9-36V	DC12、24、48V DC9-36V	DC12、24、48V DC9-36V
	功耗 Consumption	DC12、24、48V: 6W DC9-36V: 启动(Start)36W 保持(Hold) ≤2W	DC12、24、48V: 6W DC9-36V: 启动(Start)36W 保持(Hold) ≤2W	DC12、24、48V: 6W DC9-36V: 启动(Start)36W 保持(Hold) ≤2W
	线圈极性 Coil polarity	有极性(Polarity)	有极性(Polarity)	有极性(Polarity)
辅助触点 Auxiliary contact	类型 Type	无(none)、1NO	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 1500A 1次(ops)	DC1000V 2000A 1次(ops)	DC1000V 2500A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC1000V	1000MΩ DC1000V	1000MΩ DC1000V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断DC1000V 150A 3500次 Breaking ops	分断DC1000V 200A 2500次 Breaking ops	分断DC1000V 250A 1500次 Breaking ops
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 360g	约(Approx) 380g	约(Approx) 380g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

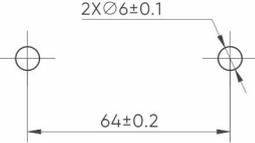
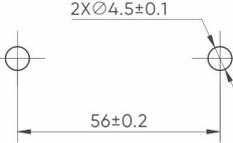
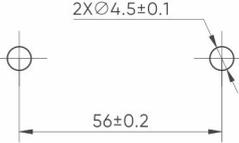
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-300	ZGC-350	ZGC-400
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~ 1000V	DC 12 ~ 1000V	DC 12 ~ 1000V
额定工作电流 Rated Working Current		300A	350A	400A
接触电阻 Contact resistance		≤0.5mΩ(at300A)	≤0.5mΩ(at350A)	≤0.5mΩ(at400A)
短时耐受电流 Short-time With Stand Current		3000A 1S、300A 持续(Sustain)	3500A 1S、350A 持续(Sustain)	4000A 1S、400A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V DC9-36V	DC12、24、48V DC9-36V	DC12、24、48V DC9-36V
	功耗 Consumption	DC12、24、48V: 6W DC9-36V: 启动(Start)36W 保持(Hold) ≤2W	DC12、24、48V: 6W DC9-36V: 启动(Start)36W 保持(Hold) ≤2W	DC12、24、48V: 6W DC9-36V: 启动(Start)36W 保持(Hold) ≤2W
	线圈极性 Coil polarity	有极性(Polarity)	有极性(Polarity)	有极性(Polarity)
辅助触点 Auxiliary contact	类型 Type	无(none)、1NO	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 2500A 1次(ops)	DC1000V 2500A 1次(ops)	DC1000V 2500A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC1000V	1000MΩ DC1000V	1000MΩ DC1000V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断DC1000V 300A 1000次 Breaking ops	分断DC1000V 350A 500次 Breaking ops	分断DC1000V 400A 200次 Breaking ops
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 380g	约(Approx) 420g	约(Approx) 420g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

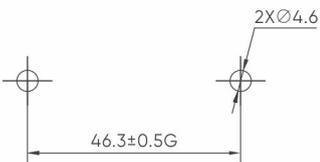
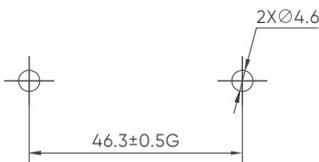
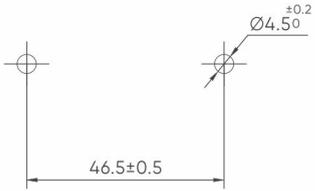
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-20G	ZGC-40B	ZGC-60B
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~ 1500V	DC 12 ~ 1000V	DC 12 ~ 1000V
额定工作电流 Rated Working Current		20A	40A	60A
接触电阻 Contact resistance		≤4.5mΩ(at20A)	≤1mΩ(at40A)	≤1mΩ(at60A)
短时耐受电流 Short-time With Stand Current		200A 1S、20A 持续(Sustain)	400A 1S、40A 持续(Sustain)	600A 1S、60A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	3W	6W	6W
	线圈极性 Coil polarity	无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
辅助触点 Auxiliary contact	类型 Type	无(none)	无(none)	无(none)
	额定电流/电压 Rated Current/Voltage	DC 6V 20mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 200A 1次(ops)	DC750V 400A 1次(ops)	DC750V 600A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC1500V	1000MΩ DC1000V	1000MΩ DC1000V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥20万次 (≥200,000 Times)	≥30万次 (≥ 300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断(Breaking)DC750V 20A 50000次 (ops) 分断(Breaking)DC1000V 20A 30000次 (ops)	分断(Breaking)DC750V 40A 1000次 (ops) 分断(Breaking)DC1000V 40A 200次 (ops)	分断(Breaking)DC750V 60A 800次 (ops) 分断(Breaking)DC1000V 60A 100次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 140g	约(Approx) 140g	约(Approx) 140g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

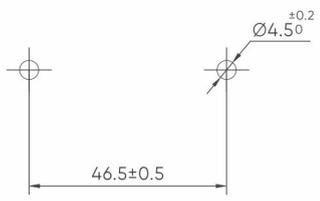
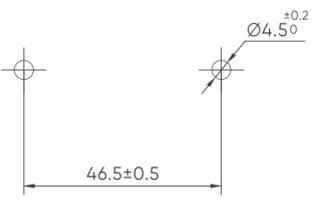
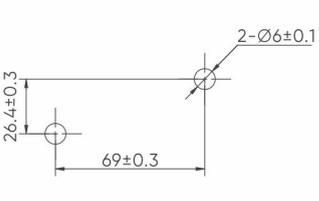
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-50	ZGC-100	ZGC-50F
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~ 800V	DC 12 ~ 800V	DC 12 ~ 1500V
额定工作电流 Rated Working Current		50A	100A	50A
接触电阻 Contact resistance		≤1mΩ(at50A)	≤1mΩ(at100A)	≤1mΩ(at50A)
短时耐受电流 Short-time With Stand Current		500A 1S、50A 持续(Sustain)	1000A 2S、100A 持续(Sustain)	500A 2S、50A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	6W	6W	6W
	线圈极性 Coil polarity	无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
辅助触点 Auxiliary contact	类型 Type	无(none)	无(none)	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 500A 1次(ops)	DC1000V 1000A 1次(ops)	DC1000V 500A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC1000V	1000MΩ DC1000V	1000MΩ DC1000V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断(Breaking)DC800V 50A 6000次 (ops) 分断(Breaking)DC1000V 50A 4000次 (ops)	分断(Breaking)DC800V 100A 500次 (ops) 分断(Breaking)DC1000V 100A 1000次 (ops)	分断(Breaking)DC1000V 50A 2500次 (ops) 分断(Breaking)DC1500V 50A 1500次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 180g	约(Approx) 180g	约(Approx) 190g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

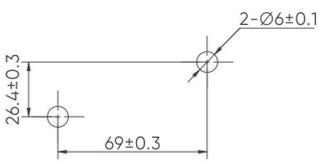
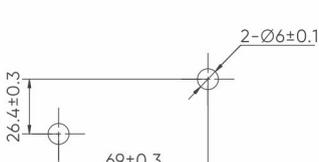
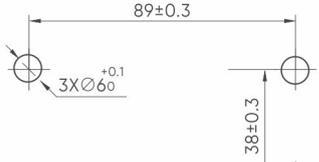
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-100F	ZGC-150F	ZGC-250C
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~1500V	DC 12 ~ 1500V	DC 12 ~ 1000V
额定工作电流 Rated Working Current		100A	150A	250A
接触电阻 Contact resistance		≤1mΩ(at100A)	≤1mΩ(at150A)	≤0.5mΩ(at250A)
短时耐受电流 Short-time With Stand Current		1000A 2S、100A 持续(Sustain)	1000A 2S、150A 持续(Sustain)	2500A 1S、250A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	6W	6W	启动(Start)36W 保持(Hold)5W
	线圈极性 Coil polarity	无极性(Nonpolarity)	无极性(Nonpolarity)	有极性(Polarity)
辅助触点 Auxiliary contact	类型 Type	无(none)	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 1000A 1次(ops)	DC1000V 1500A 1次(ops)	DC1000V 2500A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC1000V	1000MΩ DC1000V	1000MΩ DC1500V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断(Breaking)DC1000V 100A 1000次 (ops) 分断(Breaking)DC1500V 100A 500次 (ops)	分断(Breaking)DC1000V 150A 800次 (ops) 分断(Breaking)DC1000V 150A 300次 (ops)	分断(Breaking)DC1000V 250A 1000次 (ops) 分断(Breaking)DC1500V 250A 100次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 190g	约(Approx) 190g	约(Approx) 380g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

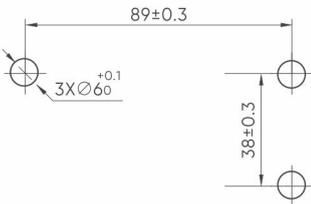
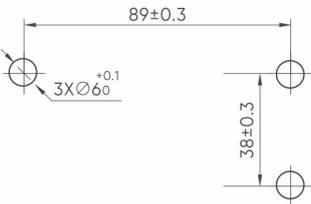
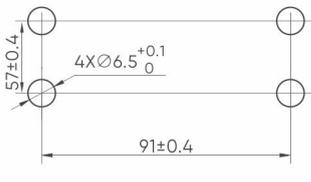
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-300C	ZGC-350C	ZGC-400E
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~1000V	DC 12 ~ 1500V	DC 12 ~ 1500V
额定工作电流 Rated Working Current		300A	350A	400A
接触电阻 Contact resistance		≤0.5mΩ(at300A)	≤0.5mΩ(at350A)	≤0.5mΩ(at400A)
短时耐受电流 Short-time With Stand Current		3000A 1S、300A 持续(Sustain)	3500A 1S、350A 持续(Sustain)	4000A 1S、400A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	启动(Start)36W 保持(Hold)5W	启动(Start)36W 保持(Hold)5W	启动(Start)50W 保持(Hold)5W
	线圈极性 Coil polarity	有极性(Polarity)	有极性(Polarity)	有极性(Polarity)
辅助触点 Auxiliary Contact	类型 Type	无(none)、1NO	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 3000A 1次(ops)	DC1000V 3500A 1次(ops)	DC1000V 2000A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC 1500V	1000MΩ DC 1500V	1000MΩ DC 1000V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断(Breaking)DC1000V 300A 500次 (ops) 分断(Breaking)DC1500V 300A 100次 (ops)	分断(Breaking)DC1000V 350A 500次 (ops) 分断(Breaking)DC1500V 350A 50次 (ops)	分断(Breaking)DC1000V 400A 1000次 (ops) 分断(Breaking)DC1500V 400A 200次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 380g	约(Approx) 380g	约(Approx) 790g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

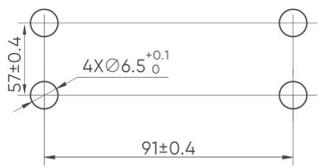
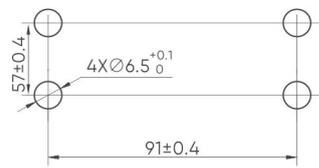
陶瓷钎焊封装
Ceramic brazing package

产品型号 Product Model		ZGC-500E	ZGC-600E	ZGC-350D
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~1500V	DC 12 ~ 1500V	DC 12 ~ 1500V
额定工作电流 Rated Working Current		500A	600A	350A
接触电阻 Contact resistance		≤0.5mΩ(at500A)	≤0.5mΩ(at600A)	≤0.5mΩ(at350A)
短时耐受电流 Short-time With Stand Current		5000A 1S、500A 持续(Sustain)	6000A 1S、600A 持续(Sustain)	3500A 5S、350A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	启动(Start)50W 保持(Hold)5W	启动(Start)50W 保持(Hold)5W	启动(Start)50W 保持(Hold)5W
	线圈极性 Coil polarity	有极性(Polarity)	有极性(Polarity)	有极性(Polarity)
辅助触点 Auxiliary contact	类型 Type	无(none)、1NO	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC2000V 1000A 1次(ops)	DC2000V 1000A 1次(ops)	DC1000V 2000A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC1000V	1000MΩ DC1000V	1000MΩ DC1500V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断(Breaking)DC1000V 500A 300次 (ops) 分断(Breaking)DC1500V 500A 100次 (ops)	分断(Breaking)DC1000V 600A 150次 (ops) 分断(Breaking)DC1500V 600A 50次 (ops)	分断(Breaking)DC1000V 350A 1000次 (ops) 分断(Breaking)DC1500V 350A 500次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 790g	约(Approx) 790g	约(Approx) 1100g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

陶瓷钎焊封装
Ceramic brazing package

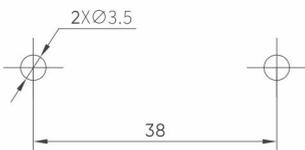
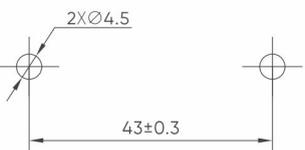
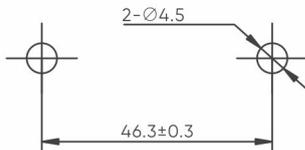
产品型号 Product Model		ZGC-600D	ZGC-800D	ZGC-1000D
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~1500V	DC 12 ~ 1500V	DC 12 ~ 1500V
额定工作电流 Rated Working Current		600A	800A	1000A
接触电阻 Contact resistance		≤0.5mΩ(at600A)	≤0.5mΩ(at800A)	≤0.5mΩ(at1000A)
短时耐受电流 Short-time With Stand Current		6000A 1S、600A 持续(Sustain)	8000A 120ms、800A 持续(Sustain)	10000A 120ms、1000A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	启动(Start)50W 保持(Hold)5W	启动(Start)50W 保持(Hold)5W	启动(Start)50W 保持(Hold)5W
	线圈极性 Coil polarity	有极性(Polarity)	有极性(Polarity)	有极性(Polarity)
辅助触点 Auxiliary contact	类型 Type	无(none)、1NO	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 100mA	DC 6V 100mA	DC 6V 100mA
最大切断电流 Maximum Cut-Off Current		DC1000V 2000A 1次(ops)	DC1000V 2000A 1次(ops)	DC1000V 2000A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC 1500V	1000MΩ DC 1500V	1000MΩ DC 1500V
介质耐压 Dielectric Strength		AC 4000V 60S	AC 4000V 60S	AC 4000V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		分断(Breaking)DC1000V 600A 1000次 (ops) 分断(Breaking)DC1500V 600A 500次 (ops)	分断(Breaking)DC1000V 800A 300次 (ops) 分断(Breaking)DC1500V 800A 50次 (ops)	分断(Breaking)DC1000V 1000A 10次 (ops) 分断(Breaking)DC1500V 800A 10次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 1150g	约(Approx) 1150g	约(Approx) 1150g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

环氧封装

Epoxy encapsulation

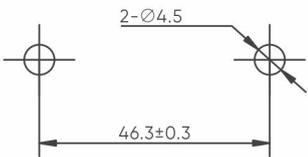
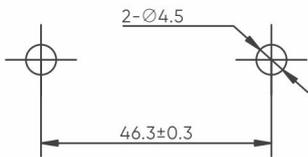
产品型号 Product Model		ZGC(H)-20	ZGC(H)-30	ZGC(H)-50a
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
主触点形式 Main Contact Arrangement		1NO	1NO	1NO
工作电压范围 Working Voltage Range		DC 12 ~ 450V	DC 12 ~ 450V	DC 12 ~ 750V
额定工作电流 Rated Working Current		20A	30A	50A
接触电阻 Contact resistance		≤1mΩ(at20A)	≤1mΩ(at30A)	≤1mΩ(at50A)
短时耐受电流 Short-time With Stand Current		200A 1S、20A 持续(Sustain)	300A 1S、30A 持续(Sustain)	500A 1S、50A 持续(Sustain)
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12V	DC12、24、48V	DC12、24、48V
	功耗 Consumption	6W	6W	6W
	线圈极性 Coil polarity	无极性(Nonpolarity)	无极性(Nonpolarity)	无极性(Nonpolarity)
辅助触点 Auxiliary contact	类型 Type	无(none)	无(none)、1NO	无(none)、1NO
	额定电流/电压 Rated Current/Voltage	DC 6V 20mA	DC 6V 30mA	DC 6V 50mA
最大切断电流 Maximum Cut-Off Current		DC6V 200A 1次(ops)	DC 320V 300A 1次(ops)	DC 750V 500A 1次(ops)
绝缘电阻 Insulation Resistance		1000MΩ DC 500V	1000MΩ DC 500V	1000MΩ DC 500V
介质耐压 Dielectric Strength		AC 2500V 60S	AC 2500V 60S	AC 2500V 60S
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)
电气寿命 Electrical life		切换(Switch)DC450V 20A 3000次 (ops) 切换(Switch)DC450V 10A 10000次 (ops)	切换(Switch)DC450V 20A 3000次 (ops) 切换(Switch)DC450V 10A 10000次 (ops)	分断(Breaking)DC750V 100A 1000次 (ops) 分断(Breaking)DC1000V 100A 50次 (ops)
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz
重量 Weight		约(Approx) 160g	约(Approx) 105g	约(Approx) 105g
安装脚尺寸 Installation Foot Size				

高压直流接触器一览表

List of high voltage DC contactors

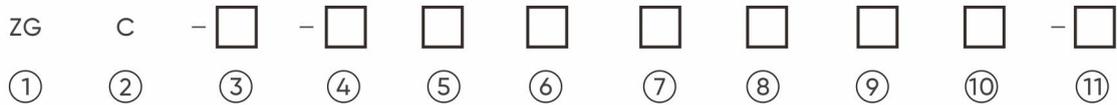
环氧封装

Epoxy encapsulation

产品型号 Product Model		ZGC(H)-50b	ZGC(H)-100	
产品图 Product Image				
触点极性 Contact Polarity		无极性(Nonpolarity)	无极性(Nonpolarity)	
主触点形式 Main Contact Arrangement		1NO	1NO	
工作电压范围 Working Voltage Range		DC 12 ~ 900V	DC 12 ~ 900V	
额定工作电流 Rated Working Current		50A	100A	
接触电阻 Contact resistance		≤1mΩ(at50A)	≤1mΩ(at100A)	
短时耐受电流 Short-time With Stand Current		500A 1S、100A 持续(sustain)	1000A 1S、100A 持续(sustain)	
控制线圈 Control Coil	额定电压Uc Rated Voltage	DC12、24、48V	DC12、24、48V	
	功耗 Consumption	6W	6W	
	线圈极性 Coil polarity	无极性(Polarity)	无极性(Polarity)	
辅助触点 Auxiliary contact	类型 Type	无(none)、1NO	无(none)、1NO	
	额定电流/电压 Rated Current/Voltage	DC 6V 50mA	DC 6V 50mA	
最大切断电流 Maximum Cut-Off Current		DC750V 500A 1次(ops)	DC750V 1000A 1次(ops)	
绝缘电阻 Insulation Resistance		1000MΩ DC1000V	1000MΩ DC1000V	
介质耐压 Dielectric Strength		AC 2500V 60S	AC 2500V 60S	
机械寿命 Mechanical Life		≥30万次 (≥300,000 Times)	≥30万次 (≥300,000 Times)	
电气寿命 Electrical life		分断(Breaking)DC750V 100A 1000次 (ops) 分断(Breaking)DC1000V 50A 100次 (ops)	分断(Breaking)DC750V 100A 1000次 (ops) 分断(Breaking)DC1000V 100A 50次 (ops)	
冲击稳定性 Impact Stability		ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	ON 196m/s ² 11ms 正弦半波脉冲 Half-sine wave pulse OFF 98m/s ² 10us	
冲击强度 Impact Strength		490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	490m/s ² , 6ms 正弦半波脉冲 Half-sine wave pulse	
振动 Vibrate		49m/s ² , 10Hz~500Hz	49m/s ² , 10Hz~500Hz	
重量 Weight		约(Approx) 190g	约(Approx) 190g	
安装脚尺寸 Installation Foot Size				

订货标记示例

Ordering Information



- ① 公司代号: 浙光电气(浙江)有限公司
Company Code: Zhejiang Guang Electric (Zhejiang) Co., Ltd.
- ② 高压直流接触器
High-Voltage DC Contactor
- ③ 系类代号: 60=触点负载60A; 100F=触点负载100A; 600D=触点负载600A;
Series Code: 60 = Contact Load 60A; 100F = Contact Load 100A; 600D = Contact Load 600A;
- ④ 线圈电压: 12、24=单线圈驱动电压12、24vdc;
Coil Voltage: 12, 24 = Single Coil Drive Voltage 12, 24VDC;

12D、24D=双线圈驱动电压12、24vdc;
12D, 24D = Dual Coil Drive Voltage 12, 24VDC;

J=节能型驱动电压 9-36V
J = Energy-Saving Drive Voltage 9-36V
- ⑤ 触点形式: H=主触点一组常开; HA=带辅助触点一组常开
Contact Type: H = One Main Contact, Normally Open; HA = One Auxiliary Contact, Normally Open
- ⑥ 线圈引出端方式: L=导线; C=接插件连接器
Coil Terminal Type: L = Wire; C = Plug-in Connector
- ⑦ 负载引出端方式: 4=外螺纹; 5=内螺纹
Load Terminal Type: 4 = External Thread; 5 = Internal Thread
- ⑧ 接触器安装方式: 无=标准立式; Y=卧式
Contactor Mounting: None = Standard Vertical; Y = Horizontal
- ⑨ 极性区分: W=无极性; 无=有极性
Polarity: W = Non-Polar; None = Polarized
- ⑩ 应用场合: P=充电桩、储能; V=新能源汽车车载; 无=其他
Applications: P = Charging Station, Energy Storage, V = New Energy Vehicles; None = Other
- ⑪ 客户特殊号: 按客户特殊要求输入
Customer special number: Enter according to customer's special requirements

注意事项: Precautions

各个部位的螺钉、螺母锁紧扭矩, 请控制在下述或双方约定的规定范围内, 建议安装螺栓、螺母时先预锁紧后再紧固, 触头锁紧安装次数不能 > 2次, 不然会加速后续扭矩衰减程度, 在超过范围的情况下, 可能会造成产品应用失效:

The tightening torque for screws and nuts in all locations must be within the specified ranges listed below or agreed upon by both parties. It is recommended that bolts and nuts be pre-tightened before tightening. The number of contact tightening installations should not exceed two times, as this will accelerate subsequent torque decay. Exceeding this range may cause product failure.

负载端安装部位 Load end installation location		负载端安装部位 Load end installation location	
安装方式 Installation	扭矩要求 Torque requirements	安装方式 Installation	扭矩要求 Torque requirements
M4 螺钉 Screws	2N.m-3N.m	M4 螺钉 Screws	2N.m-3N.m
M5 螺钉 Screws	3N.m-4N.m	M5 螺钉 Screws	3N.m-4N.m
M6 螺钉 Screws	7N.m-9N.m	M6 螺钉 Screws	6N.m-7N.m
M8 螺钉 Screws	8N.m-10N.m		
M8螺母 Nut	9N.m-11N.m		
M10 螺母 Nut	10N.m-12N.m		

浙里,光尽其所能

Here, The Light Did What It Could

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