



Generator Sets
Mobile Power Station
Mobile Lighting Towers
Application Engineering
发电机组
移动电站
移动灯塔
配套工程



MISSION FOR VOYOKO

优轲使命

Made in China, Serving the Worldwide.
中国制造，服务世界

VISION FOR VOYOKO

优轲愿景

Continuously innovate to achieve a better future.
创新不竭，成就未来

BRANDVALUE FOR VOYOKO

优轲价值

Honesty and Trustworthiness, Adhering to Principles.

诚实守信，恪守原则

Widely Solicit Opinions, Diverse and Inclusive.

兼听则明，多元包容

Help Each Other and Win-win Cooperation.

守望互助，合作共赢

Be Meticulous and Strive for Excellence.

一丝不苟，精益求精

Teamwork and Create Brilliance Together.

团队协作，共创辉煌

VOYOKO ELECTRIC

Strive to become the best power supply equipment and continuous power solution provider.
努力打造用户最贴心的电源设备和持续电力解决方案供应商

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COMPANY PROFILE

优轲电气 ◆ 企业简介

Voyoko (Shandong) Electric Technique Co., Ltd. (hereinafter referred to as: VOYOKO ELECTRIC) is an innovative technology enterprise, which is based on brand building and promotion, with product and technology innovation as the core competitiveness, and integrates R & D and design, entrusted processing, engineering construction and service. Its main business is divided into three parts: Gen-sets and power station solutions; Electronic control equipment and power engineering solutions; Technical innovation and engineering service solutions. Its core products: gas gen-set, oil gen-sets, photo voltaic power generation equipment, power transmission and distribution and complete sets of high and low voltage electric control equipment.

优轲（山东）电气科技有限公司（简称：“优轲电气”）源于2006年成立的德沃电能技术团队，是一家以品牌建设和推广为经营基础，以产品和技术创新为核心竞争力，集研发设计、技术咨询、委托加工、设备供应、工程建设和服务为一体的创新型科技企业。公司主营业务分为三大板块：发电/储能设备和电站工程解决方案，配电/电控设备和电力工程解决方案，技术创新/设计和工程服务解决方案。我们的核心产品：燃气内燃机发电机组、燃气轮机发电机组、柴油发电机组、重油发电机组、光伏发电设备、输配电和高低压成套电控设备等。

The company cooperates with world famous engine brands such as Cummins, MTU, Yuchai, Perkins, SME and SDEC, alternator brands such as marathon, Stanford and Leroy-Somer, and controller brands such as Deepsea, ComAp and smartgen to jointly develop the global market through technical support, product introduction, resource sharing and strategic cooperation, Through the optimization of design and localization of core equipment to reduce costs, to provide users with world-class products and services. Products are widely used in energy, chemical, power, transportation, communication, medical, hotel, factory, machinery manufacturing, robotics, data center and other key engineering projects, and exported to Southeast Asia, the Middle East, Africa, Europe, Russia and other countries and regions.

Our company is also the equipment agent and operation service provider of MTU onsite, Cummins Power and Yuchai Power brand original generator sets.

公司与世界知名的康明斯Cummins、MTU、玉柴YUCHAI、三菱Mitsubishi、上柴SDEC等发动机品牌，马拉松Marathon、斯坦福Stanford、莉莱森玛Leroy-somer等发电机品牌，以及深海Deepsea、科迈comAp、众智Smartgen等控制器品牌通力合作，通过技术支持、产品引进、资源共享、战略合作等方式共同开发全球市场，通过优化设计和核心设备国产化降低成本，为用户提供世界一流的产品和服务。产品广泛应用于能源、化工、电力、交通、通信、医疗、酒店、工厂，以及机械制造、机器人、IT产业、数据中心等重点工程项目，并远销东南亚、中东、非洲、欧洲、俄罗斯等地区和国家。

公司还是 MTU Onsite（上海），康明斯电力 Cummins Power（武汉），玉柴机器 YUCHAI Power（玉林）等原装机组的设备代理和运营服务提供商。

VOYOKO ELECTRIC wins the market and respect with its advanced technology and standardized design, creates value for the society with fair and reasonable price and service, and makes friends with the world with the spirit and bearing of sincerity.

优轲电气以先进的技术和标准化设计赢得市场和尊重，以童叟无欺的价格和服务为社会创造价值，以诚信达天下的精神和气度广交天下朋友。

In beautiful Qingdao, we are looking forward to the guidance of our partners from all over the world.

优轲电气团队在美丽的青岛恭候世界各地的合作伙伴莅临指导！共商盛举！

WIN-WIN COOPERATION

优轲电气 ◆ 合作共赢



A Rolls-Royce
solution



The above ranking is in no particular order, VOYOKO pays tribute to all the suppliers' partners.
以上排名不分先后，VOYOKO向所有供应商的合作伙伴致敬

STRUCTURAL FEATURES AND PERFORMANCE ADVANTAGES

优轲电气 ◆ 结构特点及性能优势

◎ Excellent Performance 性能卓越

The world's leading engine and efficient generator, with different design of control system, make the product run in the best state, strong power, stable and reliable performance. Pure normal wave design, stable voltage and frequency output, strong nonlinear load capacity.

选用全球领先的引擎和高效发电机，配以不同设计的控制系统，使产品运行始终处于最佳状态，动力强劲，性能稳定可靠。纯净正弦波设计，稳定的电压和频率输出，带非线性负载能力强。

◎ Strong Environmental Adaptability 适应性强

The product can operate reliably in the environment of $-40^{\circ}\text{C} \sim 50^{\circ}\text{C}$. It has strong low-temperature start-up ability, and can run normally in severe conditions such as high cold, extreme heat, wind sand, humidity and so on.

产品在 $-40^{\circ}\text{C} \sim 50^{\circ}\text{C}$ 的环境条件下能够可靠运行，低温启动能力强，能在高寒、酷热、风沙、潮湿等恶劣条件下正常运行。高原型产品在海拔5000米地区能够正常工作，功率折损低。

◎ Intelligent Control System 智能控制

The control system adopts multi-functional module design and effective combination of electronic management system, which has the functions of automatic start-up, automatic protection, automatic conversion of municipal power / power generation, multi machine parallel connection and remote communication, so as to realize the comprehensive intelligent and network management and control of products, so as to achieve the best operation of products and avoid injury accidents. E-Multilingual human-computer interaction interface, convenient for people from all over the world.

控制系统选用多功能模块设计与电子管理系统的有效结合，具备自动启动、自动保护、市电/发电自动转换、多机并联及远程通讯等功能，实现产品全面智能化和网络化管理和控制，使产品运行达到最佳状态，避免伤害事故。多语种人机交互界面，方便各国人士使用。

◎ Energy conservation and environment protection 节能环保

The world's leading technology engine is equipped with high-performance shock absorption system and rigid base, compact structure design, low vibration, low noise and excellent emission index.

全球领先技术的发动机选配，配以高性能减震系统及刚性底座，紧密结构设计，振动小、噪音低、排放指标优秀。发动机排放物符合GB20891-2014《非道路移动机械用柴油机排气污染物排放限值及测量方法》中第三/第四阶段排放限值的要求。

◎ Economical Efficiency 经济适用

Standardized design, universal parts, convenient product matching and maintenance.

The main parts have high reliability and long overhaul period.

Advanced combustion system and high efficiency generator are designed to save fuel and reduce cost.

标准化设计，零件通用性强，方便产品配套和维护。

主件可靠性高，大修期长。

先进的燃烧系统及高效率发电机配套设计节省燃油，降低使用成本。

QUALITY ASSURANCE

优轲电气 ◆ 品质保证

VOYOKO ELECTRIC guarantees that all parts of its products are qualified products from the original manufacturer, with stable quality, and pass strict inspection. We also provides 24 months (or 1000 hours of operation, whichever comes first) quality assurance for its products.

● 优轲电气对所提供的产品均确保其原装原产正品货物，保证产品质量的可靠。优轲电气提供的各型号发电设备均提供保修服务：自交货之日起24个月或机组运行1500小时（以先到者为准）。

All raw and processed material must be inspected and made relative inspection record. Any disqualification must be transacted according to the purchasing regulation and solution procedure of the reject.

● 原材料由品检员进行来料检验，并形成详细的检验记录。发现不合格，按照采购管理制度和不合格品处理程序进行处理。

Inspection during the production, include the assembly procedure, electricity packs service procedure, debugging procedure, paint procedure and so on. All procedure has it's record. Any disqualification must be transacted according to the solution procedure of the reject and taking steps to prevent and correct the same disqualification.

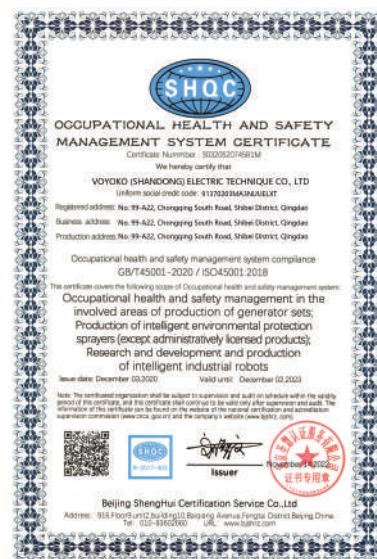
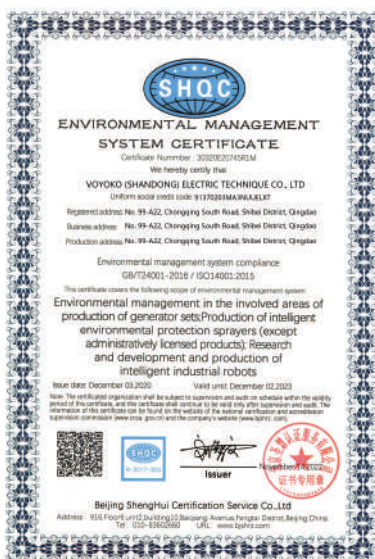
● 生产过程的制程检验，包括钣金、总装、电装、测试、喷涂等工序，并形成详细的检验记录。发现不合格，果断采取预付和纠正措施，并严格按照不合格品处理程序进行处理。

To ensure all technical parameter of the gensets is accord with the national standard, all gensets must be tested by the professional personnel and advanced and special testing equipment, and the test result will be recorded automatically by the computer.

● 机组测试由专业人员通过先进、完善的专用测试设备进行。测试结果由电脑自动记录，达不到国家标准规定的出厂要求时，要再次进行调整和调试，确保机组的技术参数符合国家标准。

QCE have to check all the finished products item by item and make particular inspection record according to the inspection standard of the finished products before warehousing.

● 成品入库前，由品检员按照成品检验标准逐项检验，并形成详细的检验记录。只有合格品才能入库。



20MW Generator Set Inspection and Testing Center

优轲电气 ◆ 20MW 检验测试中心

The core production base of Voyoko has 5 fixed inspection and testing operation lines, with a total testing capacity of 25000 kVA.

优轲电气（山东）核心生产基地拥有由 5 条固定检验测试作业线，每条检测线包括远程控制、负载和自动控制三大系统，总测试容量为 25000 千伏安。

The test voltage levels include: 230V 400V 440V 690V 3300V 4300V 6300V 6600V 10500V 13800V, achieving full coverage from low to medium to high voltage.

● 测试电压等级全：230V\400V\440V\690V\3300V\4300V\6300V\6600V\10500V\13800V，实现了低-中-高压全覆盖。

Strong adaptability: natural gas, CNG, LNG, coalbed methane and other fuels, as well as diesel engines, gas engines, air compressors, electric motors and other equipment.

● 适应性强：天然气、CNG、LNG、煤层气等燃料和柴油机、燃气机、空压机、电动机等设备。

Experimental parameters: Can simultaneously test more than 50 electrical parameters such as voltage, current, frequency, frequency band, sudden increase/decrease, waveform curve, etc.

● 实验参数：可同时测试电压、电流、频率、频率带、突加突减、波形曲线等50多项电参数。

High and low temperature environment testing: It can simulate different environmental temperatures within the range of -45 °C to +70 °C.

● 高低温环境测试：可实现在-45℃至+70℃的范围内，模拟不同的环境温度测试。

Standards and basis for testing 标准和依据

Chinese National Standards 国家标准	
GB/T 2820.5-2009	《往复式内燃机驱动的交流发电机组第 5 部分：发电机组》
GB/T 1029-2005	《三相同步电机实验方法》 Experimental Methods for Three Phase Synchronous Motors
GB/T 14711-2006	《中小型旋转电机安装要求》 Installation Requirements for Small and Medium Rotating Electrical Machines
GB/T 20136-2006	《内燃机电站通用实验办法》 General experimental methods for internal combustion engine power station
GB/T 50052-2009	《供电系统设计规范》 Design Specification for Power Supply System
GB 5226.1-2008	《机械电气安全》 Mechanical and electrical safety
GB/T 20641-2006	《低压成套开关设备和控制设备空壳体的一般技术要求》 General technical requirements for hollow shells of low-voltage switch gear and control equipment
GB 4208-2008	《外壳防护等级》 Degrees of protection provided by enclosure
Chinese Military Standards 军用标准	
GJB 2815-97	《军用内燃机负载通用规范》 General specification for military internal combustion engine loads
GJB 235A-97	《军用交流移动负载通用规范》 General specification for military AC mobile loads
GJB 235-87	《工、中频移动负载通用技术条件》 General-purpose technology conditions for power frequency and medium frequency mobile loads

ELECTRICAL PROPERTIES AND STANDARD CONFIGURATION

优轲电气 ◆ 电气性能和标准配置

Prime Power : According to GB/T2820-2009/ISO8528, it can operate without limitation within a certain power range, and can accumulate 10% overload capacity for 1 hour every 12 hours of operation.

主用功率PRP：在一定功率范围内可以无限制运行，每运行 12 小时可累计 1 小时 10%的过载能力。

Standby Power : The maximum power limit for emergency use, without overload capacity. The annual operation time shall not exceed 500 hours, the annual average power shall not exceed 70% of the rated power, and the continuous operation time of the standby power shall not exceed 1 hour.

备用功率ESP：应急使用的最大功率限值，不具备超负荷能力。年运行时间不超过 500 小时，年平均功率不超过标定功率的。

Electrical Properties 电气性能			
No power loss Condition 不降功率条件	Altitude $\leq 1000\text{m}$ Relative humidity $\leq 85\%$ 海拔 $\leq 1000\text{m}$,相对湿度 $\leq 85\%$	Voltage stabilization time 电压稳定时间	$\leq 1\text{s}$
The environment temperature 环境温度	$-40^{\circ}\text{C} \sim 50^{\circ}\text{C}$	Steady state frequency regulation rate 稳态频率调整率	0~5% (可调)
Barometric pressure 大气压力	$\leq 100 \text{ KPa}$	Transient state frequency regulation rate 瞬态频率调整率	+10% ~ -7%
Wiring Mode 接线方式	3-phase, 4-wire	Frequency volatility 频率波动率	$\leq 0.5\%$
Steady state voltage regulation rate 稳态电压调整率	$\pm 1\%$	Frequency stabilization time 频率稳定时间	$\leq 1\text{s}$
Transient state voltage regulation rate 瞬态电压调整率	+20% ~ -15%	Waveform distortion rate 波形失真率	$\leq 0.5\%$
Voltage fluctuation rate 电压波动率	$\leq 0.5\%$	Short circuit sustaining current 短路维持电流	300% , 10s
Standard Equipment List 标准配置		Optional Accessories 可选配置	
Engine 发动机		50°C Radiator 50°C散热水箱	
Alternator 交流发电机		Residential muffler 住宅型消声器	
40°C Radiator 40°C 散热水箱		Water Jacket Heater 水套加热器	
Intelligent Control Panel 智能控制屏		Lube oil heater 润滑油加热器	
Industrial Muffler / Bellows 消声器/波纹管		Base fuel tank / Split fuel tank 底座油箱/分体油箱	
Steel Common Base 钢制底座		Automatic fuel supply system 燃油自动补给系统	
Maintenance Free Battery 免维护蓄电池		Remote communication control system 三遥通信控制系统	
Output Circuit Breaker 输出断路器		ATS Cabinet 自动电源转换开关柜	
Standard Tools 标准工具		Automatic parallel system 自动并机系统	
Delivery Attached Documentation 随机资料		Rain proof box / Sound proof box / Mobile Trailer 防雨箱/消音箱/移动拖车	

VBD SERIES DIESEL GENERATOR SET

优轲电气 ◆ VBD系列

VBD series diesel generator sets adopt Baudouin diesel engine as power.
VBD系列柴油发电机组采用博杜安柴油发动机作为动力引擎。

ABOUT BAUDOUIN 关于博杜安

Baudouin Company, headquartered in Cassis, France. For a century, Baudouin has always been active in the world's marine and inland shipbuilding industry as a power supplier with the spirit of navigation. In 1929, the company became one of the world's three largest suppliers of marine engines; The complete propulsion system was launched in 1948; In 1983, F11 series engine 6F11SRX was equipped on AMX10 tank; In 1989, he participated in the European Offshore F1 Grand Prix and won the diesel group championship; In 1991, three M26 series engines, L6, V8 and V12, were developed. In 2009, the French Baudouin Company was renamed as Baudouin International Engine Company.

总部设在法国卡西斯的博杜安公司始终以航海精神作为动力供应商活跃于世界海洋和内陆造船业。1929年，成为世界三大船用发动机供应商之一；1989年，他参加了欧洲海上F1大奖赛，并获得了柴油组冠军；1991年，研制出了L6、V8和V12三款M26系列发动机。2009年，法国博杜安公司更名为博杜安国际发动机公司。

For over 100 years, Baudouin has designed and manufactured the highest quality diesel and gas engines for marine and power generation applications spanning 18 – 4125 kVA. Our Network supports our customers in over 130 countries with specification, commissioning, service and genuine spare parts.

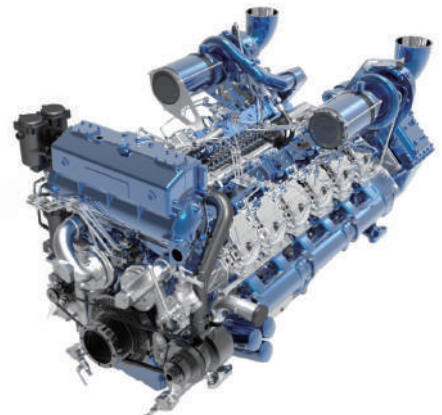
100多年来，博杜安设计和制造了适用于18–4125 kVA船舶和发电应用的高质量柴油和燃气发动机，为130多个国家的客户提供规格、调试、服务和正品备件支持。

As the primary position for Baudouin International Engine Company to enter the Chinese engine market, Baudouin (Weifang) Power Co., Ltd. has established a sound procurement, advanced manufacturing and high-quality after-sales service system in China. Baudouin is committed to developing the high-speed and high-power engine market in China and even in East Asia.

作为博杜安国际发动机公司进入中国发动机市场的首要阵地，博杜安（潍坊）动力有限公司在中国建立了完善的采购、先进的制造和优质的售后服务体系。博杜安致力于开拓中国乃至东亚地区的高速大功率发动机市场。

Baudouin provides customers with 330-1200kW marine power, industrial power, engineering machinery and other power products. The product has strong reliability, good economy, super long overhaul period, stable performance and humanized detail design.

博杜安为客户提供330-1200kW船用电力、工业电力、工程机械等电力产品，该产品可靠性强，经济性好，检修周期超长，性能稳定，细节设计人性化。



VBD5 系列 ◆ VBD5 series

POWERS BY BAUDOUIN

50Hz /1500rpm400V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VB500D52	500/400	500/400	6M26D48E200	电子调速 Electronic	150×150	17:1	15.9	50	110	197
VB575D52	575/460	632.5/506	6M33D572E200		150×185	17:1	19.6	60.5	127	197
VB625D52	625/500	687.5/550	6M33D605E200		150×185	17:1	19.6	60.5	127	197
VB750D52	750/600	825/660	12M26D748E200		150×150	17:1	31.8	113	198	196
VB800D52	800/640	880/704	12M26D792E200		150×150	17:1	31.8	113	198	196
VB900D52	900/720	990/792	12M26D902E200		150×150	17:1	31.8	113	198	196
VB1000D52	1000/800	1100/880	12M26D968E200		150×150	17:1	31.8	113	198	196
VB1125D52	1125/900	1237.5/990	12M33D1108E200		150×185	17:1	39.2	146	233	195
VB1250D52	1250/1000	1375/1100	12M33D1210E200		150×185	17:1	39.2	146	233	195
VB500D53	500/400	550/440	6M33D506E310		150×185	17:1	19.6	60.5	127	197
VB575D53	575/460	632.5/506	6M33D572E310		150×185	17:1	19.6	60.5	127	197
VB625D53	625/500	687.5/550	6M33D633E310		150×185	17:1	19.6	60.5	127	197
VB750D53	750/600	825/660	12M33D748E310		150×185	17:1	39.2	146	233	195
VB800D53	800/640	880/704	12M33D792E310		150×185	17:1	39.2	146	233	195
VB900D53	900/720	990/792	12M33D902E310		150×185	17:1	39.2	146	233	195
VB1000D53	1000/800	1100/880	12M33D968E310		150×185	17:1	39.2	146	233	195
VB1125D53	1125/900	1237.5/990	12M33D1108E310		150×185	17:1	39.2	146	233	195
VB1250D53	1250/1000	1375/1100	12M33D1240E310	电控 ECU	150×185	17:1	39.2	146	233	195
VB1500D53	1500/1200	1650/1320	16M33D1527E310		150×185	17:1	52.3	180	350	190
VB1650D53	1650/1320	1815/1452	16M33D1573E310		150×185	17:1	52.3	180	350	190
VB1750D53	1750/1400	1925/1540	16M33D1650E310		150×185	17:1	52.3	180	350	190

标准参数： 额定电压： 400/230V； 额定频率： 50Hz； 额定功率因数： 0.8（滞后）； 接线方式： 三相四线

Standard parameters： Rated voltage： 400/230V； Rated frequency： 50Hz； Rated power factor： 0.8（lag）； Junction Type： 3 phases 4 wires注： 720KW 及以上功率的机组同时含有 3.3LV/6.6KV/10.5KV 等电压等级可选（亦有 60Hz 频率机组可选）。

Notes： Generating sets of 720KW and above can provide 3.3KV/6.6KV/10.5KV as well.（60Hz is also optional）

VCD SERIES DIESEL GENERATOR SET

优轲电气 ◆ VCD系列

VCD series diesel generator sets adopt Cummins diesel engine as power.
VCD系列柴油发电机组采用康明斯柴油发动机作为动力引擎。

ABOUT CUMMINS 关于康明斯

Cummins Inc. is a global leader of power equipment manufacturer, which designs, manufacturer, distributes engines with fuel systems, control system, air-intake processing, filtration, emission solutions and electrical power systems, and provides after-sales service accordingly. Its head office locates in USA and the manufacturer bases are distributed in USA, Britain, India, China etc.

康明斯是一家全球领先的动力设备优秀制造商，设计、制造和销售包括燃油系统、控制系统、进气处理、滤清系统、尾气处理系统和电力系统在内的发动机，并提供相应的售后服务。总部位于美国印第安纳州哥伦布市，在美国、英国、印度和中国设有康明斯的生产基地。

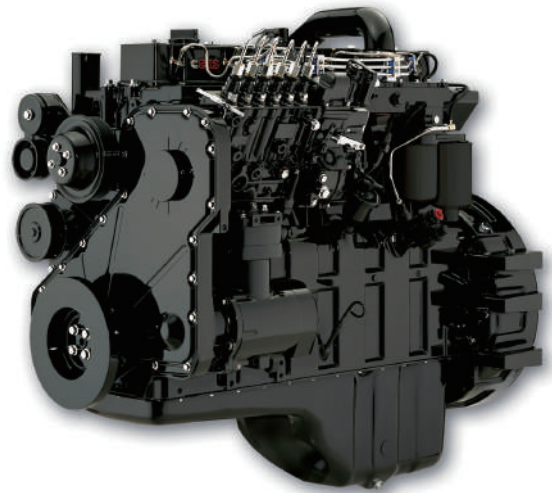
All VCD series diesel generator sets are powered by Cummins engine, with power range from 20KVA to 2750kva. It has the characteristics of high integration, simple operation and maintenance, compact structure, good economy and wide application. It is widely used in railway and highway, financial institutions, aerospace, energy and power, posts and telecommunications, petrochemical, military and national defense, medical institutions, industrial and mining exploration, etc.

优轲电气的VCD系列柴油发电机组，分别采用东风康明斯、重庆康明斯、美国康明斯和印度康明斯作为引擎，功率范围涵盖20KVA 至2750KVA。具有集成度高，操作维护简单，结构紧凑，经济性好，应用广泛等特点。广泛应用于铁路公路、金融机构、航空航天、能源电力、邮电通信、石油化工、军工国防、医疗机构、工矿勘探等。

VOYOKO is also an excellent agent of Cummins Power Generation (Wuhan , China) .
优轲电气还是康明斯电力(中国)有限公司制造的康明斯电力原厂发电机组优秀代理商。

PRODUCT FEATURES 产品特点

- Supercharged four-stroke diesel engines.
- Integrated modular structure design.
- Unique Cummins PT fuel system.
- High power density.
- 四冲程增压发动机
- 集成化积木式结构设计
- 独特的康明斯PT燃油系统
- 功率密度高，重量轻



50Hz /1500rpm400V , 3P4W , Cosφ=0.8

VCD5 系列 ◆ VCD5 series
POWERS BY DCEC

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KVA/KW)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/Stroke (mm)	压缩比 Compression Ratio	排量 Displacement (L)	机油容量 Lub. OIL Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel Consumption (g/kwh)
VC20D52	20/16	22/18	4B3.9-G1	电子调速 Electronic	102/120	16.5:1	3.9	11	25	215
VC25D52	25/20	28/22	4B3.9-G2		102/120	16.5:1	3.9	11	25	214
VC37D52	37.5/30	40/32	4BT3.9-G2		102/120	16.5:1	3.9	11	25	214
VC50D52	50/40	55/44	4BTA3.9-G2		102/120	16.5:1	3.9	11	28	214
VC62D52▲	62.5/50	68.75/55	4BTA3.9-G2		102/120	16.5:1	3.9	11	28	214
VC80D52	80/64	88/70.4	4BTA3.9-G11		102/120	16.5:1	3.9	11	28	214
VC100D52	100/80	110/88	6BT5.9-G2		102/120	17.5:1	5.9	16.4	30	211
VC112D52	112.5/90	125/100	6BTA5.9-G2		102/120	17.0:1	5.9	16.4	34	211
VC125D52	125/100	137.5/110	6BTAA5.9-G2		102/120	16.5:1	5.9	16.4	34	211
VC150D52	150/120	165/132	6BTAA5.9-G12		102/120	16.5:1	5.9	16.4	34	211
VC175D52	175/140	192.5/154	6CTA8.3-G2		114/135	17.0:1	8.3	27.6	40	210
VC200D52	200/160	220/176	6CTAA8.3-G2		114/135	16.0:1	8.3	23.8	42	210
VC250D52	250/200	275/220	6LTAA8.9-G3		114/145	16.6:1	8.9	27.6	42	205
VC375D52	375/300	413/330	6ZTAA13-G3		125/147	16.1:1	13	46	93	197
VC437D52	437.5/350	463/370	6ZTAA13-G4		125/147	16.1:1	13	46	93	197
VC437D52	437.5/350	463/370	QSZ13-G2		140/152	15:1	13	46	95	200
VC500D52	500/400	550/440	QSZ13-G3		140/152	15:1	13	46	93	200

注：带“▲”发电机组为同型号发动机增强功率型。Notes: Genset with ▲ is power enhanced model with same engine type.

标准参数： 额定电压：400/230V；额定频率：50Hz；额定功率因数：0.8（滞后）；接线方式：三相四线
Standard parameters: Rated voltage: 400/230V；Rated frequency: 50Hz；Rated power factor: 0.8 (lag)；Junction Type: 3 phases 4 wires.

VCD5 系列 ◆ VCD5 series

POWERS BY CCEC

50Hz /1500rpm 400V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VC250D52	250/200	275/220	NT855-GA	电子调速 Electronic	140/152	14:1	14	39	53	197
VC275D52	275/220	306/245	NTA855-G1A		140/152	14:1	14	39	53	197
VC312D52	312.5/250	344/275	NTA855-G1B		140/152	14:1	14	39	53	200
VC350D52	350/280	385/308	NTA855-G2A		140/152	14:1	14	39	53	194
VC375D52	375/300	412.5/330	NTAA855-G7		140/152	14:1	14	37	63	204
VC450D52	450/360	500/400	KTA19-G3		159/159	13.9:1	19	50	80	204
VC500D52	500/400	550/440	KTA19-G4		159/159	13.9:1	19	50	80	204
VC562D52	562.5/450	618.75/495	KTAA19-G6		159/159	13.9:1	19	50	80	204
VC600D52	600/480	660/528	KTAA19-G8		159/159	13.9:1	19	50	80	204
VC625D52	625/500	687.5/550	KTAA19-G6A		159/159	13.9:1	19	50	80	204
VC750D52	750/600	825/660	KTA38-G2		159/159	14.5:1	37.8	135	223	200
VC800D52	800/640	880/704	KTA38-G2B		159/159	14.5:1	37.8	135	223	202
VC910D52	900/720	1000/800	KTA38-G2A		159/159	14.5:1	37.8	135	223	202
VC1000D52	1000/800	1100/880	KTA38-G5		159/159	13.9:1	37.8	135	223	202
VC1125D52	1125/900	1237/1000	KTA38-G9		159/159	14.5:1	37.8	135	260	202
VC1250D52	1250/1000	1375/1100	KTA50-G3		159/159	13.9:1	50.8	204	330	201
VC1375D52	1375/1100	1650/1320	KTA50-G8		159/159	14.9:1	50.8	204	330	201
VC1500D52	1500/1200	1650/1320	KTA50-GS8		159/159	15:1	50.8	204	330	201
VC1687D52	1687/1350	1865/1485	KTA50-G15		159/159	15:1	50.8	204	330	201
VC1875D52	1875/1500	2062/1650	KTA50-G16		159/159	15:1	50.8	204	330	201

标准参数： 额定电压：400/230V； 额定频率：50Hz； 额定功率因数：0.8（滞后）； 接线方式：三相四线

Standard parameters: Rated voltage: 400/230V; Rated frequency: 50Hz; Rated power factor: 0.8 (lag); Junction Type: 3 phases 4 wires

注：720KW 及以上功率的机组同时含有 3.3KV/6.6KV/10.5KV 等电压等级可选（亦有 60Hz 频率机组可选）。

Notes: Generating sets of 720KW and above can provide 3.3KV/6.6KV/10.5KV as well. (60Hz is also optional)

VCD6 系列 ◆ VCD6 series

POWERS BY DCEC

60Hz /1800rpm 480V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KVA/KW)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/Stroke (mm)	压缩比 Compression Ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel Consumption (g/kwh)
VC27D62	27.5/22	30/24	4B3.9-G2	电子调速 Electronic	102/120	16.5:1	3.9	11	25	214
VC33D62	33.75/27	37.5/30	4BT3.9-G1		102/120	16.5:1	3.9	11	25	214
VC43D62	43.75/35	50/40	4BT3.9-G2		102/120	16.5:1	3.9	11	28	214
VC50D62	50/40	55/44	4BTA3.9-G2		102/120	16.5:1	3.9	11	28	214
VC65D62	65/52	71.25/57	4BTA3.9-G2		102/120	16.5:1	3.9	11	28	214
VC90D62	90/72	100/80	6BT5.9-G1		102/120	17.5:1	5.9	16.4	30	211
VC112D62	112.5/90	125/100	6BT5.9-G2		102/120	17.5:1	5.9	16.4	30	211
VC135D62	135/108	148/119	6BTA5.9-G2		102/120	17.0:1	5.9	16.4	34	211
VC142D62	142.5/114	156.25/125	6BTAA5.9-G2		102/120	16.5:1	5.9	16.4	34	211
VC160D62	160/128	170/136	6CTA8.3-G1		114/135	17.0:1	8.3	27.6	40	210
VC200D62	200/160	220/176	6CTA8.3-G2		114/135	17.0:1	8.3	27.6	40	210
VC225D62	225/180	250/200	6CTAA8.3-G2		114/135	16.0:1	8.3	23.8	42	210
VC275D62	275/220	300/240	6LTAA8.9-G2		114/145	16.6:1	8.9	27.6	42	205

CONTINUED ON



60Hz /1800rpm 480V, 3P4W, Cosφ=0.8

VCD6 系列 ♦ VCD6 series
POWERS BY CCEC

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VC312D62	312/250	343/275	NTA855-G1	电子调速 Electronic	140/152	14:1	14	39	53	197
VC343D62	343/275	377/302	NTA855-G1B		140/152	14:1	14	39	53	200
VC393D62	393/315	433/346	NTA855-G3		140/152	14:1	14	39	53	194
VC437D62	437.5/350	481/385	KTA19-G2		159/159	13.9:1	19	50	80	204
VC512D62	512.5/410	564/451	KTA19-G3		159/159	13.9:1	19	50	80	204
VC562D62	562.5/450	618/495	KTA19-G4		159/159	13.9:1	19	50	80	204
VC587D62	587.5/470	646/517	KTAA19-G5		159/159	13.9:1	19	50	80	204
VC687D62	N/A	750/600	KTAA19-G6A		159/159	13.9:1	19	50	80	204
VC775D62	775/620	852/682	KTA38-G		159/159	14.5:1	37.8	135	223	200
VC800D62	800/640	880/704	KTA38-G2B		159/159	14.5:1	37.8	135	223	200
VC906D62	906/725	996/797	KTA38-G2		159/159	14.5:1	37.8	135	223	200
VC1000D62	1000/800	1100/880	KTA38-G2A		159/159	14.5:1	37.8	135	223	202
VC1125D62	1125/900	1238/900	KTA38-G4		159/159	13.9:1	37.8	135	223	202
VC1250D62	N/A	1375/1100	KTA38-G9		159/159	14.5:1	37.8	135	260	202
VC1375D62	1375/1100	1512/1210	KTA50-G3		159/159	13.9:1	50.8	204	330	201
VC1562D62	1562/1250	1718/1375	KTA50-G9		159/159	14.9:1	50.8	204	330	201
VC1875D62	N/A	2062/1650	KTA50-G9		159/159	15:1	50.8	204	330	201

注：可以根据用户需求定制中-高压发电机组。

Notes: Medium and high voltage generator sets can be customized according to user needs.

VMD SERIES DIESEL GENERATOR SET

优轲电气◆VMD 系列

VMD series diesel generator sets adopt MTU diesel engine as power.
VMD 系列柴油发电机组采用 MTU 柴油发动机作为动力引擎。

ABOUT MTU

关于 MTU

MTU is part of the Rolls-Royce group, It's a global group company, specializing in design and manufacture of propulsion system and power generation equipment applied in land based, marine and railway system. Its headquarter locates in Germany and manufacturing bases are distributed in Germany, America and China.

MTU 是一家集设计生产于一身的陆用、水上和铁路推动系统，以及发电设备的全球性集团公司。总部位于德国德国腓特烈港，在德国、美国和中国设有 mtu 的生产基地。

All VMD series diesel generator sets are powered by MTU engine, and the power range is 300KVA to 3000KVA. It is characterized by high integration, low fuel consumption, low emission, long maintenance cycle, strong adaptability, etc. It is widely used in railway and highway, financial institutions, aerospace, energy and power, posts and telecommunications, petrochemical, military and national defense, medical institutions, industrial and mining exploration, etc.

优轲电气的VMD系列柴油发电机组，分别采用苏州MTU、玉柴MTU和德国MTU作为引擎，功率范围涵盖：300KVA至3000KVA。具有集成度高，油耗低，低排放、大修期长，适应性强等特点。产品广泛应用于铁路公路、金融机构、航空航天、能源电力、邮电通信、石油化工、军工国防、医疗机构、工矿勘探等。

VOYOKO is also an excellent agent of MTU onsite energy.

优轲电气还是安特优(中国)有限公司制造的 MTU onsite energy 原厂发电机组优秀代理商。

PRODUCT FEATURES

产品特点

- Advanced and improved fuel injection system.
先进完善的燃油喷射系统
- Advanced turbocharging and cooling technology.
先进完善的涡轮增压技术和冷却技术
- Reasonable structural design
结构设计科学
- Economical fuel consumption, low operation cost
极为出色的燃油经济性，运行费用低
- Long overhaul interval, up to 30000 hours
大修间隔长，可达 30000小时以上
- No white smoke during starting, low noise and vibration
无启动黑烟现象，低噪音，低震动01
- Electronic management system with self-diagnostic function(Advanced Diesel Engine Controller)
具有自诊断功能的电子管理系统 ADEC



VMD 系列 ♦ VMD series

POWERS BY MTU

50Hz /1500rpm 400V , 3P4W , Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VM650D53	650/520	715/572	12V2000G25	电子调速 ADEC	130/150	16.0:1	23.88	77	180	198
VM800D53	800/640	880/704	12V2000G65		130/150	16.0:1	23.88	77	180	198
VM900D53	900/720	990/792	16V2000G25		130/150	16.0:1	31.84	102	220	198
VM1000D53	1000/800	1100/880	16V2000G65		130/150	16.0:1	31.84	102	220	198
VM1125D53	1125/900	1250/1000	18V2000G65		130/150	16.0:1	35.82	130	255	198
VM1250D53	1250/1000	1375/110	18V2000G26F		130/150	16.0:1	35.82	130	255	197
VM1375D53	1100/1375	1210/1512	12V4000G23RF		170/210	164:1	57.2	260	500	190
VM1650D53	1650/1320	1812/1450	12V4000G23F		170/210	164:1	57.2	260	500	189
VM1820D53	1820/1460	2002/1600	12V4000G63F		170/210	164:1	57.2	260	520	193
VM2060D53	2060/1650	2266/1815	16V4000G23F		170/210	164:1	76.3	300	570	192
VM2250D53	2250/1800	2500/2000	16V4000G63F		170/210	164:1	76.3	300	570	191
VM2500D53	2500/2000	2750/2200	20V4000G23F		170/210	164:1	95.4	390	640	195
VM2750D53	2750/2200	3025/2420	20V4000G63F		170/210	164:1	95.4	390	640	193
VM3000D53	3000/2400	3300/2640	20V4000G63LF		170/210	164:1	95.4	390	640	192

标准参数： 额定电压：400/230V；额定频率：50Hz；额定功率因数：0.8（滞后）；接线方式：三相四线

Standard parameters： Rated voltage：400/230V；Rated frequency：50Hz；Rated power factor：0.8（lag）；Junction Type：3 phases 4 wires

注：720KW 及以上功率的机组同时含有 3.3LV/6.6KV/10.5KV 等电压等级可选（亦有 60Hz 频率机组可选）。

Notes：Generating sets of 720KW and above can provide 3.3KV/6.6KV/10.5KV as well.（60Hz is also optional）



VMD6 系列 ♦ VMD6 series
POWERS BY MTU

60Hz /1800rpm 480V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VM312D63	312.5/250	343/275	6R1600G10S	电子调速 ADEC	122/150	17.5:1	10.5	46	75	196
VM350D63	350/280	385/308	6R1600G20S		122/150	17.5:1	10.5	46	75	195
VM417D63	417/334	485/367	8V1600G10S		122/150	17.5:1	14	46	85	210
VM450D63	450/360	495/396	8V1600G20S		122/150	17.5:1	14	46	85	193
VM581D63	581/465	639/511	10V1600G20S		122/150	17.5:1	17.5	60.5	110	190
VM630D63	630/504	692/554	12V1600G10S		122/150	17.5:1	21	72.5	115	192
VM690D63	690/552	759/607	12V1600G20S		122/150	17.5:1	21	72.5	115	192
VM793D63	793/635	872/698	12V2000G45		130/150	16.0:1	23.88	77	180	198
VM900D63	900/720	990/792	12V2000G85		130/150	16.0:1	23.88	77	180	198
VM1031D63	1031/825	1134/907	16V2000G45		130/150	16.0:1	31.84	102	220	198
VM1137D63	1137/910	1251/1000	16V2000G85		130/150	16.0:1	31.84	102	220	198
VM1343D63	1343/1075	1477/1182	18V2000G85		130/150	16.0:1	35.82	130	255	198
VM1750D63	1750/1400	1920/1540	12V4000G43		170/210	164:1	57.2	260	500	189
VM2037D63	2037/1630	2241/1793	12V4000G83		170/210	164:1	57.2	260	520	193
VM2362D63	2362/1890	2598/2079	16V4000G43		170/210	164:1	76.3	300	570	192
VM2662D63	2662/2130	2928/2343	16V4000G83		170/210	164:1	76.3	300	570	191
VM2875D63	2875/2300	3162/2530	20V4000G43		170/210	164:1	95.4	390	640	195
VM3181D63	3181/2545	3499/2799	20V4000G83		170/210	164:1	95.4	390	640	193
VM3512D63	3512/2810	3863/3091	20V4000G83L		170/210	164:1	95.4	390	640	192

注：可以根据用户需求定制中-高压发电机组。

Notes: Medium and high voltage generator sets can be customized according to user needs.

VPD SERIES DIESEL GENERATOR SET

优轲电气 ◆ VPD 系列

VPD series diesel generator sets adopt Perkins diesel engine as power.

VPD 系列柴油发电机组采用珀金斯 Perkins 柴油发动机作为动力引擎。

ABOUT PERKINS

关于珀金斯

Perkins, with a history dating back to 1932, is the world's leading supplier of diesel engines, Perkins has been reputed for diesel engine manufacturing for more than 80 years. Perkins Engine Co., Ltd., a subsidiary of Caterpillar, has factories and offices in Brazil, China, India, Japan, Singapore, the United Kingdom and the United States.

珀金斯的历史可以追溯到 1932 年，是世界领先的柴油发动机供应商，已经有 80 多年的历史。珀金斯发动机有限公司是卡特彼勒的全资子公司，在巴西、中国、印度、日本、新加坡、英国和美国设有制造工厂或办事机构。

Local support from more than 3500 stores in 176 countries gives you more than 40000 fully guaranteed Perkins genuine parts.

世界上 176 个国家/地区，3500 多家商店，作为本地支持，可以为用户提供 40000 多种 Perkins 正品零件。



VOYOKO diesel generator sets - VPD series, with the features of environment friendly, low vibration and noise, high-tech and excellent performance, includes 400/1100/1500 series (6kw~240kw) and 2000/4000 series (285kw~ 1800kw) and are widely applied in data center, financial institutions, medical institutions and many other fields, such as aerospace, energy & power, post and telecommunication, petrochemical, military defense, mining exploration, etc.

VOYOKO 的 VPN 系列柴油发电机组具有环保、低振动、低噪音、高科技和优异性能的特点，包括 400/1100/1500 系列（6kw~240kw）和 2000/4000 系列（285kw~1800kw），广泛应用于数据中心、金融机构、医疗机构和航空航天、能源电力、邮电通信等众多领域，石油化工、军事防御、矿产勘探等。



50Hz /1500rpm 400V , 3P4W, CosØ=0.8

VPD5 系列 ◆ VPD5 series
POWERS BY Perkins

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KVA/KW)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VP8D52	8/7	9.6/7.7	403A-11G1	机械调速 Mechanical	77×81	23:01	1.131	4.9	5.2	248
VP12D52	12.5/10	14/11	403A-15G1		84×90	22.5:1	1.496	6	6	248
VP15D52	15/12	16.5/13.2	403A-15G2		84×90	22.5:1	1.496	6	6	250
VP20D52	20/16	22/17.6	404D-22G		84×100	23.3:1	2.216	7	10	237
VP25D52	25/20	27.5/22	404D-22TD		84×100	23.3:1	2.216	7	10	246
VP30D52	30/24	33/26.4	1103A-33G		105x127	17.25:1	3.3	8.3	10.2	211
VP50D52	50/40	55/44	1103A-33TG1		105x127	17.25:1	3.3	8.3	10.2	207
VP60D52	60/48	66/53	1103A-33TG2		105x127	17.25:1	3.3	8.3	10.2	217
VP62D52	62.5/50	68.75/55	1104A-44TG1		105x127	17.25:1	4.4	8	13	208
VP75D52	75/60	82.5/66	1104A-44TG2		105x127	17.25:1	4.4	8	13	208
VP100D52	100/80	110/88	1104C-44TAG2	电子调速 Electronic	105x127	18.2:1	4.4	8	13	205
VP125D52	125/100	137.5/110	1106A-70TG1		105x135	16:1	7.01	16.5	21	206
VP150D52	150/120	165/132	1106A-70TAG2		105x135	16:1	7.01	16.5	21	207
VP175D52	175/140	192.5/154	1106A-70TAG3		105x135	16:1	7.01	16.5	21	206
VP200D52	200/160	220/176	1106A-70TAG4		105x135	16:1	7.01	16.5	21	206
VP225D52	225/180	247.5/198	1506A-E88TAG2		112x149	16.1:1	8.8	41	30	197
VP250D52	250/200	275/220	1506A-E88TAG3		112x149	16.1:1	8.8	41	30	199
VP275D52	275/220	300/240	1506A-E88TAG4		112x149	16.1:1	8.8	41	33	196
VP300D52	300/240	330/264	1506A-E88TAG5		112x149	16.1:1	8.8	41	33	196
VP350D52	350/280	385/308	2206C-E13TAG2		130x157	16.3:1	12.5	40	52	209
VP400D52	400/320	440/352	2206C-E13TAG3		130x157	16.3:1	12.5	40	52	206
VP450D52	450/360	400/400	2506C-E15TAG1		137x171	16:1	15	62	58	199
VP500D52	500/400	550/440	2506C-E15TAG2		137x171	16:1	15	62	58	199

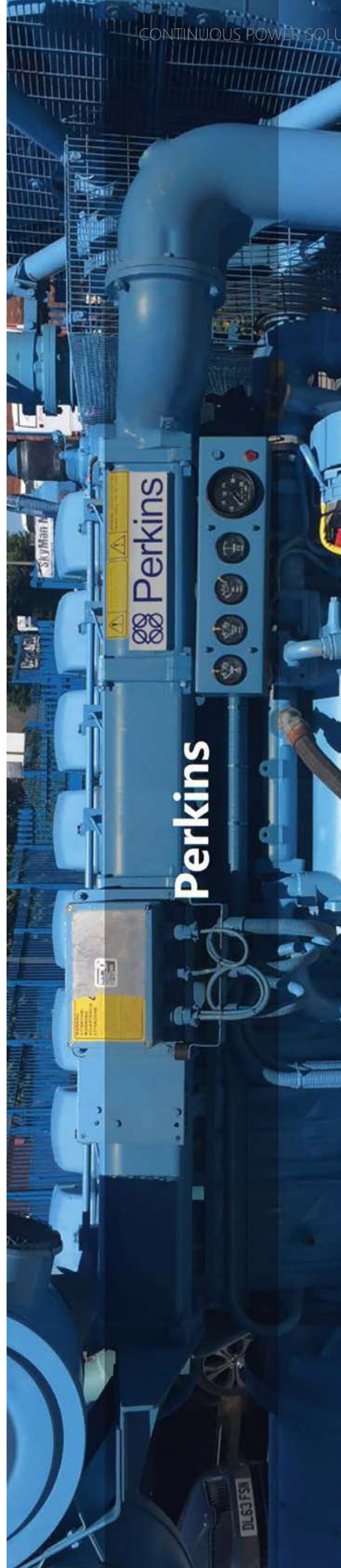
VP600D52	600/480	660/528	2806C-E18TAG1A	电子调速 Electronic	145x183	14.5:1	18.1	62	61	206
VP650D52	650/520	700/560	2806A-E18TAG2		145x183	14.5:1	18.1	62	61	206
VP750D52	750/600	825/660	4006-23TAG2A		160x190	13.6:1	22.921	114	168	197
VP800D52	800/640	880/704	4006-23TAG3A		160x190	13.6:1	22.921	114	168	200
VP900D52	900/720	1000/800	4008-TAG1A		160x190	13.6:1	30.561	153	200	224
VP1000D52	1000/800	1100/880	4008-TAG2A		160x190	13.6:1	30.561	153	200	223
VP1125D52	1125/900	1250/1000	4008-30TAG3		160x190	13.6:1	30.561	153	200	223
VP1250D52	1250/1000	1375/1100	4012-46TWG2A		160x190	13.6:1	45.842	177	260	217
VP1500D52	1500/1200	1650/1320	4012-46TAG2A		160x190	13.6:1	45.842	177	300	213
VP1687D52	1687/1350	1856/1483	4012-46TAG3A		160x190	13.6:1	45.842	177	300	213
VP1825D52	1825/1460	2000/1600	4016-TAG1A		160x190	13.6:1	61.123	238	365	215
VP2000D52	2000/1600	2200/1760	4016-TAG2A		160x190	13.6:1	61.123	238	365	215
VP2250D52	2250/1800	2500/2000	4016-61TRG3		160x190	13.6:1	61.123	238	560	215

标准参数： 额定电压：400/230V；额定频率：50Hz；额定功率因数：0.8（滞后）；接线方式：三相四线

Standard parameters： Rated voltage：400/230V；Rated frequency：50Hz；Rated power factor：0.8（lag）；Junction Type：3 phases 4 wires

注：720KW 及以上功率的机组同时含有 3.3kV/6.6kV/10.5kV 等电压等级可选（亦有 60Hz 频率机组可选）。

Notes：Generating sets of 720KW and above can provide 3.3kV/6.6kV/10.5kV as well.（60Hz is also optional）



VPD6 系列 ◆ VPD6 series

POWERS BY Perkins

60Hz /1800rpm480V, 3P4W, Cosφ=0.8

机型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KVA/KW)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel consumption (g/kwh)
VP11D62	11/9	12/10	403D-11G	机械调速 Mechanical	77×81	23:01	1.131	4.9	5.2	248
VP16D62	16/13	17/14	403D-15G		84×90	22.5:1	1.496	6	6	248
VP24D62	24/19	27/21	404D-22G		84×100	23.3:1	2.216	7	10	237
VP35D62	35/28	38/31	1103A-33G		105×127	17.25:1	3.3	8.3	10.2	211
VP53D62	53/42	59/47	1103A-33TG1		105×127	17.25:1	3.3	8.3	10.2	207
VP68D62	68/54	75/60	1103A-33TG2		105×127	17.25:1	3.3	8.3	10.2	217
VP75D62	75/60	83/66	1104A-44TG1		105×127	17.25:1	4.4	8	13	208
VP90D62	90/72	100/80	1104A-44TG2		105×127	17.25:1	4.4	8	13	208
VP112D62	112/90	125/100	1104C-44TAG2		105×127	17.25:1	4.4	8	13	205
VP150D62	150/120	165/132	1006TAG		100×127	17:1	7.01	19	37	208
VP170D62	170/135	190/150	1106C-E66TG3	电子调速 Electronic	105×135	16:1	7.01	16.5	21	206
VP206D62	206/165	227/182	1106C-E66TG4		105×135	16:1	7.01	16.5	21	207
VP175D62	175/140	192.5/154	1106A-70TAG3		105×135	16:1	7.01	16.5	21	206
VP200D62	200/160	220/176	1106A-70TAG4		105×135	16:1	7.01	16.5	21	206
VP231D62	231/185	254/204	1306C-E87TAG3		112×149	16.1:1	8.8	41	30	197
VP313D62	313/250	344/275	1606A-E93TAG4		112×149	16.1:1	8.8	41	30	199
VP400D62	400/320	440/352	2206A-E13TAG5		130×157	16.3:1	12.5	40	52	209
VP438D62	438/350	482/385	2206A-E13TAG6		130×157	16.3:1	12.5	40	52	206
VP513D62	513/410	564/451	2506A-E15TAG3		137×171	16:1	15	62	58	199
VP596D62	596/455	626/500	2506A-E15TAG4		137×171	16:1	15	62	58	199
VP625D62	625/500	687/550	2806A-E18TAG1A		145×183	14.5:1	18.1	62	61	206
VP750D52	750/600	825/660	4006-23TAG2A		160×190	13.6:1	22.921	114	168	197
VP800D52	844/675	938/750	4006-23TAG3A		160×190	13.6:1	22.921	114	168	200

FUTURE-READY POWER SOLUTIONS

Enabling your journey to Net Zero



VVD SERIES DIESEL GENERATOR SET

优轲电气 ◆ VVD 系列

VVD series diesel generator sets adopt VOLVO diesel engine as power.
VVD 系列柴油发电机组采用沃尔沃柴油发动机作为动力引擎。

About VOLVO 关于沃尔沃

Volvo is one of the largest suppliers of commercial transportation products in the world. Volvo manufactures trucks, buses, construction machinery, power systems for ship and industrial applications, aviation engines, and aviation engine components. The product range also includes customized overall solutions for finance, leasing, insurance, and maintenance, as well as overall solutions for transportation information and management based on IT technology.

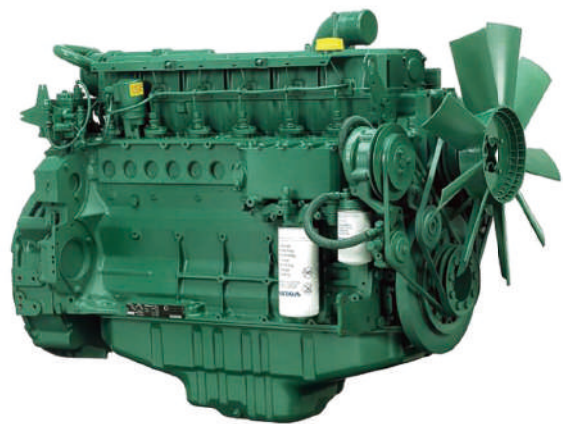
沃尔沃集团是世界上最大的商用运输产品供应商之一。沃尔沃制造卡车、客车、建筑机械、应用于船舶和工业用途的动力系统、航空发动机及航空发动机部件。产品范围还包括客户定制金融、租赁、保险和维修总体解决方案，以及基于 IT 技术的运输信息和管理整体解决方案。

VVD series diesel generator sets adopt VOLVO penta as engines, with power range from 100KVA to 680KVA. It has the characteristics of high integration, low fuel consumption, low emission, long overhaul period and strong adaptability. It is widely used in railway and highway, financial institutions, aerospace, energy and power, posts and telecommunications, petrochemical, military and national defense, medical institutions, industrial and mining exploration, etc.

VVD 系列柴油发电机组采用沃尔沃遍达品牌发动机作为引擎，功率范围涵盖：100KVA 至 680KVA。具有集成度高，油耗低，低排放、大修期长，适应性强等特点。产品广泛应用于石油勘探、钻井平台、工业生产、航空航天、能源电力、邮电通信、石油化工、军工国防、医疗机构等。

PRODUCT FEATURES 产品特点

- Military quality, quality assurance.
- Low fuel consumption and low emission.
- Stable operation, strong reliability, sufficient power and strong impact load resistance .
- The maintenance is simple and the maintenance cost is low.
- 军工品质，质量保障
- 低油耗，低排放
- 运行稳定，可靠性强，功率充足，耐冲击负荷强
- 维修简单，保养费用低



VVD5 系列 ◆ VVD5 series POWERS BY VOLVO

50Hz /1500rpm 400V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	发动机功率 Max.Power (KW)	缸径/冲程 Bore/stroke (mm)	调速方式 Speeding Model	排量 Displacement (L)	机油容量 Lub. OIL Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel Consumption (L/h)
VV80D52	80/64	90/72	TD520GE	83	108×130	Mechanical 机械调速	4.76	11	12	19.3
VV100D52	100/80	110/88	TAD531GE	98	108×130	Electronic 电子调速	4.76	11	19.7	22.8
VV115D52	115/92	126/101	TAD532GE	125	108×130		4.76	11	20.2	28.6
VV125D52	125/100	138/110	TAD532GE	125	108×130		4.76	11	20.2	28.6
VV150D52	150/120	165/132	TAD731GE	148	108×130		7.15	17	23.8	32.9
VV180D52	180/144	200/160	TAD732GE	179	108×130	ECM 电子喷射	7.15	31	37.1	40.3
VV200D52	200/160	220/176	TAD733GE	197	108×130		7.15	31	37.1	43.6
VV250D52	250/200	275/220	TAD734GE	241	108×130		7.15	24	32	51.8
VV312D52	312/250	343/275	TAD941GE	308	120×138		9.36	30	41	66.1
VV375D52	375/300	412/330	TAD1343GE	356	131×158		12.78	30	44	73.6
VV400D52	400/320	450/360	TAD1344GE	389	131×158		12.78	30	44	80.2
VV450D52	450/360	500/400	TAD1345GE	431	131×158		12.78	30	44	88.5
VV500D52	500/400	550/440	TAD1641GE	473	144×165		16.12	42	60	99.9
VV570D52	570/456	625/500	TAD1642GE	536	144×165		16.12	42	60	113.7
VV635D52	635/508	700/560	TWD1643GE	596	144×165		16.12	42	128	124.2



VVD6 系列 ◆ VVD6 series

POWERS BY VOLVO

60Hz /1800rpm 480V , 3P4W , Cosφ=0.8

机型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	发动机功率 Max.Power (KW)	缸径/冲程 Bore/stroke (mm)	调速方式 Speeding Model	排量 Displacement (L)	机油容量 Lub. OIL Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel Consumption (L/h)
VV88D62	88/70	96/77	TD520GE	85	108×130	Mechanical 机械调速	4.76	11	12	19.3
VV105D62	105/84	115/92	TAD531GE	104	108×130	电子调速 Electronic	4.76	11	19.7	22.8
VV132D62	132/106	146/117	TAD532GE	129	108×130		4.76	11	20.2	28.6
VV161D62	161/129	177/142	TAD731GE	154	108×130		7.15	17	23.8	32.9
VV206D62	206/165	225/180	TAD732GE	197	108×130		7.15	31	37.1	40.3
VV225D62	225/180	248/198	TAD733GE	218	108×130	ECM 电子喷射系统	7.15	31	37.1	43.6
VV250D62	250/200	275/220	TAD734GE	247	108×130		7.15	24	32	51.8
VV343D62	343/275	378/303	TAD941GE	323	120×138		9.36	30	41	66.1
VV410D62	410/328	451/361	TAD1343GE	388	131×158		12.78	30	44	73.6
VV456D62	456/365	501/401	TAD1344GE	431	131×158		12.78	30	44	80.2
VV506D62	506/406	562/450	TAD1640GE	479	144×165		16.12	42	60	99.9
VV570D62	570/456	627/502	TAD1641GE	546	144×165		16.12	42	60	99.9
VV625D62	625/500	687/550	TAD1642GE	585	144×165		16.12	42	60	113.7
VV687D62	687/550	756/605	TWD1643GE	644	144×165		16.12	42	128	124.2



VSD SERIES DIESEL GENERATOR SET

优轲电气 ◆ VSD 系列

VSD series diesel generator sets adopt SDEC & SME diesel engine as power.
VSD 系列柴油发电机组采用中国上柴和日本三菱重工(菱重)柴油发动机作为动力引擎。

About Mitsubishi & SME

关于三菱和菱重

The history of Mitsubishi Heavy Industry can be traced back to Nagasaki shipyard in 1884. Its business covers machinery, shipbuilding, aerospace, atomic energy, electric power, transportation and other filed.

三菱重工的历史可以追溯到 1884 年的长崎造船厂。其业务涵盖机械、造船、航空航天、原子能、电力、交通运输等领域。

SME is a joint venture company jointly established by SDEC and MHI. It mainly produces S6R / S12R/ S16R series engines licensed by MHI. The series of products are mainly used for land-based generating sets, with a power coverage 500KW - 2000Kw. SME 是由上柴集团和三菱重工共同成立的合资公司。主要生产 MHI 授权的 S6R/S12R/S16R 系列发动机。该系列产品主要用于陆基发电机组，功率覆盖范围为 500KW-2000KW。

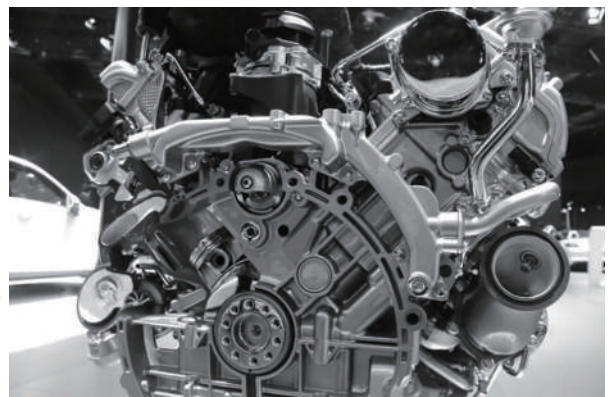
VSD series diesel generator sets adopt SDEC, SME and Mitsubishi as engines, with power range from 500KVA to 2500KVA. It has the characteristics of high integration, low fuel consumption, low emission, long overhaul period and strong adaptability. It is widely used in railway and highway, financial institutions, aerospace, energy and power, posts and telecommunications, petrochemical, military and national defense, medical institutions, industrial and mining exploration, etc.

VSD 系列柴油发电机组，分别采用上柴股份、菱重 SME 和三菱 Mitsubishi 品牌发动机作为引擎，功率范围涵盖：500KVA 至2500KVA。具有集成度高，油耗低，低排放、大修期长，适应性强等特点。产品广泛应用于铁路公路、金融机构、航空航天、能源电力、邮电通信、石油化工、军工国防、医疗机构、工矿勘探等。

PRODUCT FEATURES

产品特点

- Military quality, quality assurance
军工品质，质量保障
- Low fuel consumption and low emission
低油耗，低排放
- Stable operation, strong reliability, sufficient power and strong impact load resistance
运行稳定，可靠性强，功率充足，耐冲击负荷强
- The maintenance is simple and the maintenance cost is low
维修简单，保养费用低



VSD5 系列 ◆ VSD5 series

POWERS BY SDEC & SME (Mitsubishi)

50Hz /1500rpm 400V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	调速方式 Speeding Model	缸径/冲程 Bore/stroke (mm)	压缩比 Compression Ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel Consumption (g/kwh)
VS50D53	50/40	55/44	4HTAA4.3-G31	电子调速 Electronic	105/124	16:1	4.3	13	6.8	192
VS62D53	62.5/50	68.75/55	4HTAA4.3-G32		105/124	16:1	4.3	13	6.8	192
VS85D53	85/68	93.5/74.8	4HTAA4.3-G33		105/124	16:1	4.3	13	6.8	192
VS100D53	100/80	110/88	4HTAA4.3-G34		105/124	16:1	4.3	13	6.8	192
VS112D53	112.5/90	123.75/100	4HTAA4.3-G35		105/124	16:1	4.3	13	6.8	192
VS125D53	125/100	137.5/110	4HTAA4.3-G36		105/124	16:1	4.3	13	6.8	192
VS137D53	137.5/110	151.25/121	6HTAA6.5-G31		105/124	16:1	6.5	17.5	9.6	192
VS150D53	150/120	165/132	6HTAA6.5-G32		105/124	16:1	6.5	17.5	9.6	192
VS175D53	175/140	192.5/154	6HTAA6.5-G35		105/124	16:1	6.5	17.5	9.6	192
VS187D53	187.5/150	206/165	6HTAA6.5-G33		105/124	16:1	6.5	17.5	9.6	192
VS200D53	200/160	220/176	6HTAA6.5-G34		105/124	16:1	6.5	17.5	9.6	192
VS225D53	225/180	247.5/198	6DTAA8.9-G32		114×144	18:1	8.9	19	12	192
VS250D53	250/200	275/220	6DTAA8.9-G33		114×144	16.5:1	8.9	25	12	192
VS275D53	275/220	302.5/242	6DTAA8.9-G34		114×144	16.5:1	8.9	25	12	192
VS312D53	312.5/250	343/275	6ETAA11.8-G32		128×153	17:1	11.8	41	23	190
VS350D53	350/280	385/308	6ETAA11.8-G33		128×153	17:1	11.8	41	23	190
VS375D53	375/300	412.5/330	6ETAA11.8-G31		128×153	17:1	11.8	41	23	190
VS437D53	437.5/350	481/385	6ETAA12.8-G31		130×161	17:1	12.8	41	23	190
VS500D53	500/400	550/440	6KTA25-G36		170×185	14.5 : 1	25.18	70	55	192
VS562D53	562.5/450	618/495	6KTA25-G35		170×185	14.5 : 1	25.18	70	55	192
VS625D53	625/500	687.5/550	6KTA25-G34		170×185	14.5 : 1	25.18	70	55	192
VS687D53	687.5/550	756/605	6KTA25-G33		170×185	14.5 : 1	25.18	70	55	192
VS750D53	750/600	825/660	6KTA25-G32		170×185	14.5 : 1	25.18	70	55	192
VS800D53	800/640	880/704	6KTA25-G31		170×185	14.5 : 1	25.18	70	55	192

VS900D53	900/720	1000/800	6WTAA35-G32	186×215	16:1	35.1	100	78	195
VS1000D53	1000/800	1100/900	6WTAA35-G31	186×215	16:1	35.1	100	78	195
VS1125D53	1125/900	1250/1000	6WTAA35-G310	186×215	16:1	35.1	100	78	195
VS1250D53	1250/1000	1375/1100	6WTAA35-G311	186×215	16:1	35.1	100	78	195
VS1375D52	1375/1100	1510/1210	S12R-PTA2-C	170×180	13.5:1	49.03	180	305	259L/h
VS1500D52	1500/1200	1650/1320	S12R-PTAA2-C	170×180	13.5:1	49.03	180	305	317L/h
VS1750D52	1750/1400	1925/1540	S16R-PTA-C	170×180	14:1	65.37	230	350	351L/h
VS1875D52	1875/1500	2060/1650	S16R-PTA2-C	170×180	13.5:1	65.37	230	450	388L/h
VS2000D52	2000/1600	2200/1760	S16R-PTAA2-C	170×180	14:1	65.37	230	450	415L/h
VS2250D52	2250/1800	2475/1980	S16R2-PTAW-C	170×220	14:1	79.9	260	480	464L/h

标准参数： 额定电压： 400/230V； 额定频率： 50Hz； 额定功率因数： 0.8（滞后）； 接线方式： 三相四线

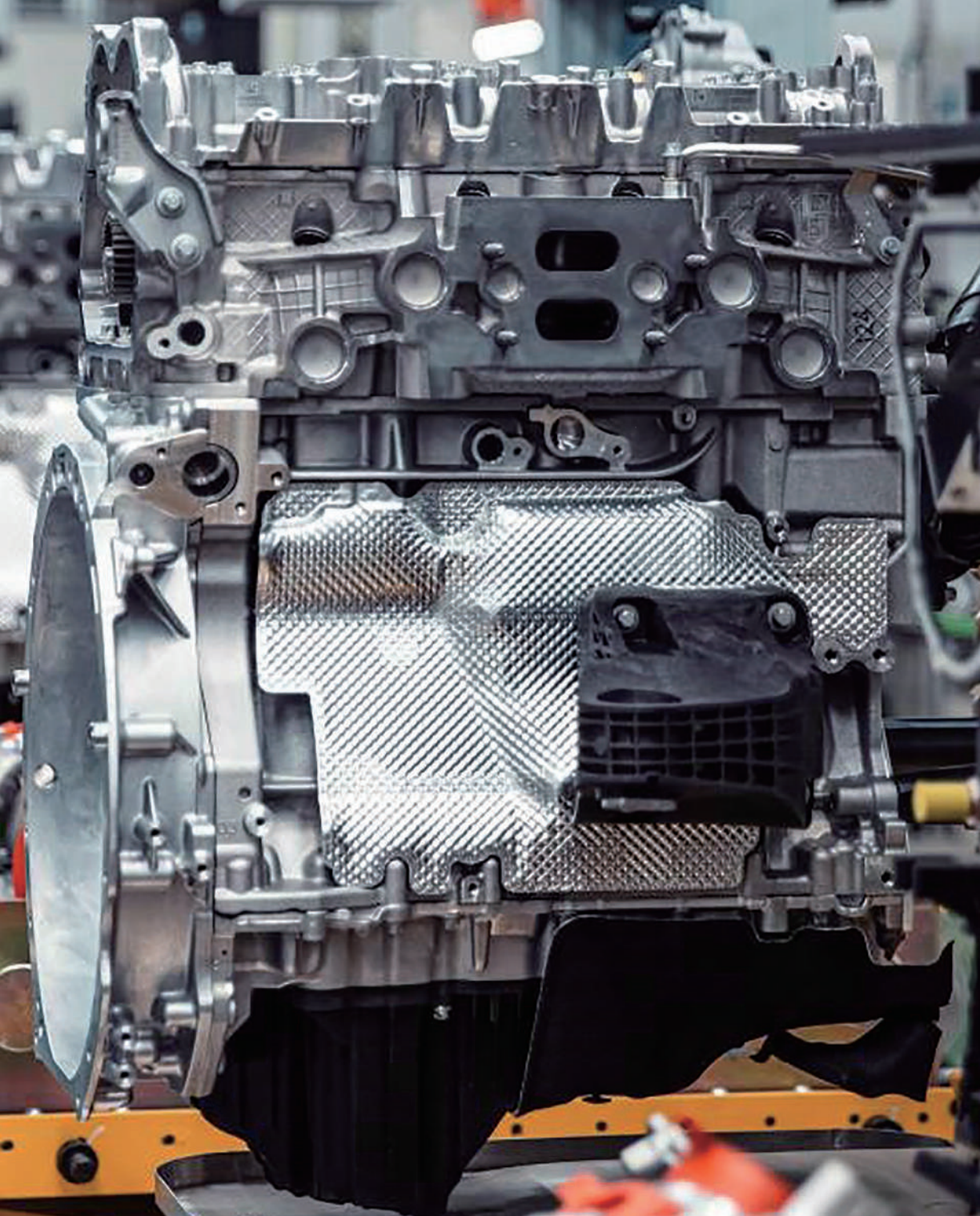
Standard parameters: Rated voltage: 400/230V; Rated frequency: 50Hz; Rated power factor: 0.8 (lag) ; Junction Type: 3 phases 4 wires

注： 720KW 及以上功率的机组同时含有 3.3KV/6.6KV/10.5KV 等电压等级可选（亦有 60Hz 频率机组可选）。

Notes: Generating sets of 720KW and above can provide 3.3KV/6.6KV/10.5KV as well. (60Hz is also optional)



VOYOKO 优轲®



VYD SERIES DIESEL GENERATOR SET

优轲电气 ◆ VYD 系列

VYD series diesel generator sets adopt YUCHAI diesel engine as power.

VYD 系列柴油发电机组采用玉柴柴油发动机作为动力引擎。

ABOUT YUCHAI

关于玉柴

Guangxi Yuchai Machinery Co., Ltd. is the core subsidiary of Guangxi Yuchai Machinery Group. It was restructured into a Sino foreign joint venture in 1993 and listed on the main board of the New York Stock Exchange in 1994. It is the first domestic enterprise in the same industry to list overseas. After more than 60 years of development, it has become the largest production base of internal combustion engine in China. Yuchai is headquartered in Yulin City, Guangxi Province, China.

广西玉柴机器股份有限公司始建于 1951 年，是中国内燃机工业协会会长单位，产品远销亚欧美非等 180 多个国家和地区。玉柴发动机年生产能力达 60 万台。产品涵盖 14 大平台 49 大系列 2000 多个品种，功率覆盖 15~4200 千瓦，以大功率、大扭矩、高可靠、低能耗、低噪声、低排放、适配性强的特点和专业细分的市场，成为国内主要卡车、客车、工程机械、农业机械、船舶机械和发电机械、专用车、皮卡等优选的配套动力，为中国经济和世界经济发展提供了强劲动力。

The VYD series generator sets of VOYOKO adopts Yuchai full series engine as power, with power range of 20KVA to 3000kva. It has the characteristics of low fuel consumption, low emission, long overhaul period and excellent performance. Products are widely used in data center, railway and highway, financial institutions, aerospace, energy, power, post and telecommunications, petrochemical, military and national defense, medical institutions, industrial and mining exploration, etc.

优轲电气的VYD系列柴油发电机组，分别采用玉柴全系列发动机作为引擎，功率范围涵盖：30KVA 至 2750KVA。具有低油耗，低排放，大修期长，性能优良等特点。产品广泛应用于数据中心、铁路公路、金融机构、航空航天、能源电力、邮电通信、石油化工、军工国防、医疗机构、工矿勘探等。

PRODUCT FEATURES

产品特点

- Leading supercharging, inter cooling and electronic control technology
领先的电喷、增压中冷和电控技术
- Large power reserve, good dynamic performance and strong loading capacity
功率储备大、动力性好、加载能力强
- It meets the national non road T3 standard
符合国家非道路 T3/T4 标准
- High strength cylinder block, reinforced crankshaft, reliable and durable engine.
高强度气缸体、强化曲轴，发动机可靠耐用

VYD 系列 ◆ VYD series

POWERS BY YUCHAI

50Hz /1500rpm400V, 3P4W, Cosφ=0.8

机组型号 Genset Model	主用功率 PRP (KVA/KW)	备用功率 ESP (KW/KVA)	发动机型号 Engine Model	喷油方式 Spray Mode	缸径/冲程 Bore/Stroke (mm)	压缩比 Compression ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃油消耗 Fuel Consumption (g/kwh)
VY50D53	50/40	55/44	YC4D80-D34	高压共轨 HPCR	108×115	16.7:1	4.214	13	30	≤205
VY62D53	62.5/50	68.75/55	YC4D90-D34		108×115	16.7:1	4.214	13	30	≤205
VY75D53	75/60	82.5/66	YC4D105-D34		108×115	16.7:1	4.214	13	30	≤205
VY87D53	87.5/70	95.25/77	YC4D120-D31		108×115	16.7:1	4.214	13	30	≤205
VY100D53	100/80	110/88	YC4D140-D31		108×115	16.7:1	4.214	13	30	≤205
VY112D53	112.5/90	123.75/100	YC4D155-D31		108×115	16.7:1	4.214	13	30	≤205
VY125D53	125/100	137.5/110	YC4A190-D30		108×132	16:1	4.84	17	35	≤210
VY150D53	150/120	165/132	YC6A205-D30		108×132	17.5:1	7.255	22	45	≤200
VY175D53	175/140	192.5/154	YC6A230-D30		108×132	17.5:1	7.255	22	45	≤200
VY200D53	200/160	220/176	YC6A275-D30		108×132	17.5:1	7.255	22	45	≤200
VY250D53	250/200	275/220	YC6MK350-D30		123×145	16.8:1	10.34	30	65	≤195
VY313D53	313/220	343.75/275	YC6MK420-D30		123×145	16.8:1	10.34	30	65	≤195
VY350D53	350/280	385/308	YC6MK450-D30		123×145	16.8:1	10.34	30	65	≤195
VY375D53	375/300	412.5/330	YC6K500-D31		129×155	16.5:1	12.16	36	65	≤192
VY400D53	400/320	440/352	YC6K520-D30		129×155	16.5:1	12.16	36	65	≤192
VY437D53	437.5/350	481.25/385	YC6K600-D30		129×165	16.5:1	12.94	36	65	≤192
VY500D53	500/400	550/440	YC6T660-D31		145×165	15.0:1	16.35	52	103	≤195
VY562D53	562.5/450	618.75/495	YC6TD780-D31		152×180	14.0:1	19.598	55	115	≤195
VY625D53	625/500	687.5/550	YC6TD840-D31		152×180	14.0:1	19.598	55	115	≤195
VY687D53	687.5/550	765.25/605	YC6TD900-D31		152×180	14.0:1	19.598	55	115	≤195
VY750D53	750/600	825/660	YC6TD1000-D30		152×180	14.0:1	19.598	55	115	≤195
VY800D53	800/640	880/704	YC6C1070-D31		200×210	14.5:1	39.58	180	250	≤195
VY900D53	900/720	990/792	YC6C1220-D31		200×210	14.5:1	39.58	180	250	≤195
VY1000D53	1000/800	1100/880	YC12VTD1350-D30		152×180	14.0:1	39.2	215	450	≤198

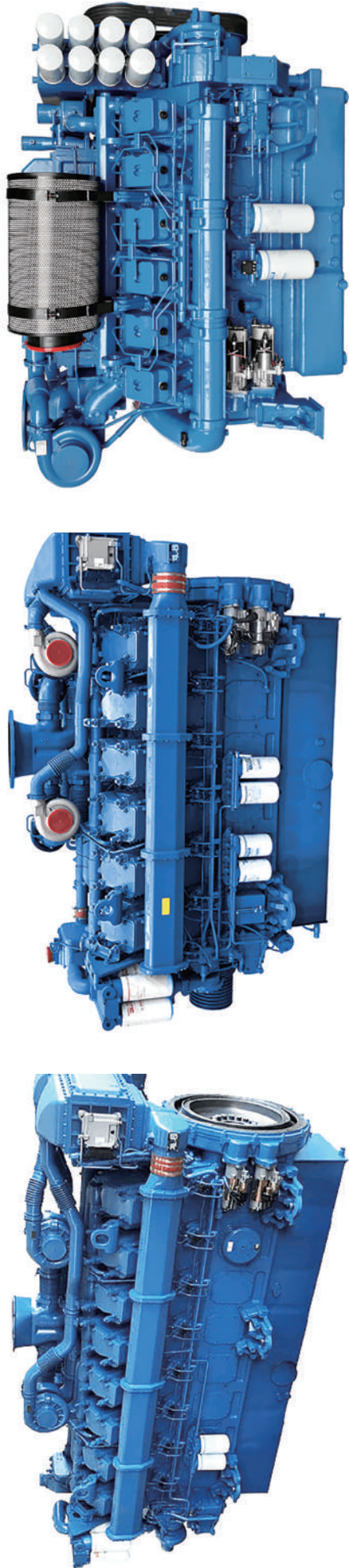
VY1125D53	1125/900	1337.5/990	YC12VTD1500-D30	152×180	14.0:1	39.2	215	450	≤198
VY1250D53	1250/1000	1375/1100	YC12VTD1680-D30		14.0:1	39.2	215	450	≤198
VY1375D53	1375/1100	1512.5/1210	YC12VTD1830-D30		14.0:1	39.2	215	450	≤198
VY1500D53	1500/1200	1650/1320	YC12VTD2000-D30		14.0:1	39.2	215	450	≤198
VY1687D53	1687/1350	1856/1485	YC16VTD2270-D30		14.0:1	52.26	280	380	≤205
VY1875D53	1875/1500	2062/1650	YC16VTD2510-D30		14.0:1	52.26	280	380	≤205
VY2000D53	2000/1600	2200/1760	YC12VC2700-D31		13.5 : 1	79.17	310	480	≤196
VY2250D53	2250/1800	2475/2000	YC16VC3000-D31		13.5 : 1	105.56	430	504	≤195
VY2500D53	2500/2000	2750/2200	YC16VC3300-D31		13.5 : 1	105.56	430	504	≤195
VY2750D53	2750/2200	3025/2420	YC16VC3600-D31		13.5 : 1	105.56	430	504	≤195
VY3000D53	3000/2400	3300/2640	YC16VC4000-D31		13.5 : 1	105.56	430	504	≤195

标准参数： 额定电压：400/230V；额定频率：50Hz；额定功率因数：0.8（滞后）；接线方式：三相四线

Standard parameters： Rated voltage：400/230V；Rated frequency：50Hz；Rated power factor：0.8（lag）；Junction Type：3 phases 4 wires

注：720KW 及以上功率的机组同时含有 3.3LV/6.6KV/10.5KV 等电压等级可选（亦有 60Hz 频率机组可选）。

Notes：Generating sets of 720KW and above can provide 3.3KV/6.6KV/10.5KV as well.（60Hz is also optional）



HIGH VOLTAGE DIESEL GENERATOR SET

优轲电气 ◆ 高压机组

VOYOKO high voltage diesel generator set is mainly divided into three series , output power range : 1000KVA ~ 3000KVA. Various output voltage levels can be customized according to user needs.

容量范围 : 1000KVA ~ 3000KVA/台

优轲电气高压柴油发电机组定型系列分别为 :VMDH/VSDH/VYDH 等 ,分别选用 mtu 发动机/三菱(菱重)发动机/玉柴发动机 , 以及利莱森玛/马拉松/斯坦福发电机 , 具有高稳定性、高可靠性 , 极大程度保证设备连续运行 , 为用户提供高品质电力供应。

Alternator Standard 发电机标准

Design and production according to ISO9001 quality certification system.

Meet the requirements of BS EN 60034 and other international standards (such as bs5000, VDE 0530, NEMA mg1-32, iecen60034, CSA c22.2-100 and as1359).

遵照 ISO9001 质量认证体系进行设计和生产。

满足 BS EN 60034 和其它国际标准(如 : BS5000、VDE 0530、Nema MG1- 32、IECEN60034、CSA C22.2-100 和 AS1359) 的相关要求。

Electrical Performance 电气性能

The carefully selected impregnation materials and processes provide the high mechanical strength required for the static winding. The use of VPI epoxy resin provides excellent insulation life for the stat or slot section of the product in terms of strength, electrical, and protective properties.

精心挑选的浸漆材料和工艺提供了静绕组所需的高机械强度。利用VPI环氧树脂在强度、电气和保护特性为产品的定子槽部分提供了优异的绝缘寿命。

The excitation system of permanent magnet generator (PMG) has very high reliability, response characteristics and stability. The digital automatic voltage regulator (AVR) specially designed and manufactured for the generator is also the standard configuration of the product.

永磁发电机励磁系统具有很高的可靠性、响应特性和稳定性。专门为发电机设计制造的数字自动电压调节 (AVR) 也是该产品的标准配置。

Mechanical Properties 机械性能

The junction box is designed firmly, and its internal components have considerable reliability and durability in the vibration environment of power equipment. The junction box can be equipped with corresponding converters, and technical personnel can easily carry out on-site assembly.

接线盒设计牢固 , 其内部部件在动力设备的振动环境下具有相当的可靠性和耐久性。接线盒可配备相应的变流器 , 技术人员可方便地进行现场装配。

The rotor of the generator has passed strict dynamic balance test, and its parameters are better than the level 2.5 standard in bs6861: Part 1. In order to eliminate the unbalance of the key way, a half key is added to the key way during the dynamic balance of the double bearing generator.

发电机转子均经过严格的动平衡测试 , 其参数优于 BS6861:Part 1中2.5级标准。双轴承发电机动平衡时 , 在键槽处加了半根键 , 以消除键槽的不平衡量。

Under the 3-phase L-L-L short circuit condition, the power generation shall be able to withstand the short circuit current of 300% of the rated current. The automatic voltage regulator (AVR) can support 10 seconds under this condition.

在 3 相 L-L-L 短路条件下，发电机能够承受最大为额定电流300%的短路电流。自动调压器 (AVR)可在该条件下支持 10秒钟。

Standard Configuration 标准配置

■ Casting and welding structure, optimize the strength and output weight ratio.

铸造和焊接结构，优化了强度和输出重量比。

■ Modular mechanism is selected to greatly shorten the production cycle.

选用模块化机构，大大缩短生产周期。

■ The rotor and stator are made of high-quality electrical silicon steel.

转子和定子选用优质电工硅钢材料。

■ The rotor adopts fully interconnected damping winding.

转子采用全互联阻尼绕组。

■ The control and system monitoring devices are located in separate boxes.

控制和系统监控装置位于独立的箱体内部。

With deep groove ball bearing and high performance synthetic grease, its design life reaches 40000 hours. For continuous operation applications, it is recommended to select the bearing temperature sensor (RTD).

采用深槽滚珠轴承和高性能合成润滑脂，其设计 L10 寿命达40,000 小时。对于连续运行应用，建议选装轴承温度传感器(RTD)。

Other options 其他选项

■ Bearing temperature sensor (PT100, 3-wire)

轴承温度传感器(PT100, 3线)

■ Winding temperature sensor (PT100, 3-wire)

绕组温度传感器(PT100, 3线)

■ Anti condensation heater (standard for medium and high pressure products)

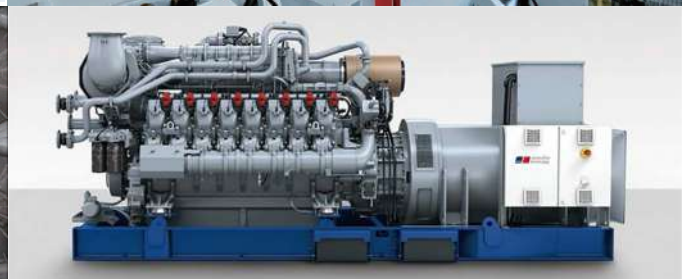
防冷凝加热器(中压和高压产品标准配置)

■ The air filter is made of washable stainless steel with differential pressure switch.

空气滤清器可冲洗不锈钢材质，带压差开关

■ Test items can be specified according to user requirements.

可根据用户要求进行指定检测项目



优轲电气 ◆ VYD53H SERIES

POWERED BY YUCHAI

Gensets Model 机组型号	PRP (KW)	ESP (KW)	Engine Model 发动机型号	Alternator Model 发电机型号	Weight (Kg)	Overall Dimension (mm)
VY1000D53H	800	880	YC12VTD1350-D30	LSA52.2ZL50	9300	5450×2150×2600
VY1125D53H	900	990	YC12VTD1500-D30	LSA52.2ZL60	9400	5450×2150×2600
VY1250D53H	1000	1100	YC12VTD1680-D30	LSA52.2ZL60	9600	5450×2000×2600
VY1375D53H	1100	1200	YC12VTD1830-D30	LSA52.2ZL70	10500	5650×2150×2600
VY1500D53H	1200	1320	YC12VTD2000-D30	LSA52.2ZL70	10600	5650×2150×2600
VY1687D53H	1350	1480	YC16VTD2270-D30	LSA53.2VL6	16800	7550×2670×2950
VY1875D53H	1500	1650	YC16VTD2510-D30	LSA53.2VL7	17200	7550×2670×2950
VY2000D53H	1600	1800	YC12VC2700-D31	LSA53.2VL7	13800	5850×2350×2600
VY2250D53H	1800	2000	YC16VC3000-D31	LSA53.2XL9	18300	7550×2670×2950
VY2500D53H	2000	2200	YC16VC3300-D31	LSA53.2XL11	18830	7550×2670×2950
VY2750D53H	2200	2400	YC16VC3600-D31	LSA53.2ZL12	20000	7600×3100×3300
VY3000D53H	2400	2640	YC16VC4000-D31	LSA53.2ZL14	21800	7700×3200×3500

优轲电气 ◆ VMD53H SERIES

POWERED BY MTU

Gensets Model 机组型号	PRP (KW)	ESP (KW)	Engine Model 发动机型号	Alternator Model 发电机型号	Weight (Kg)	Overall Dimension (mm)
VM1000D53H	800	880	18V2000G65F	LSA52.2ZL50	7800	4700×1900×2500
VM1250D53H	1000	1100	18V2000G26F	LSA52.2ZL60	8000	4850×1900×2500
VM1500D53H	1300	1450	12V4000G23F	LSA53.2VL6	14600	6050×2250×2680
VM1687D53H	1460	1600	12V4000G63F	LSA53.2VL6	15200	6050×2250×2680
VM2000D53H	1620	1780	16V4000G23F	LSA53.2VL7	17500	6250×2590×3050
VM2250D53H	1800	2000	16V4000G63F	LSA53.2XL9	17500	6250×2590×3050
VM2500D53H	2000	2200	20V4000G23F	LSA53.2XL11	24000	7650×2990×3180
VM2750D53H	2200	2400	20V4000G63F	LSA53.2ZL12	24900	7650×2990×3180
VM3000D53H	2400	2640	20V4000G63LF	LSA53.2ZL14	26800	7800×2990×3180

Generator Set 发电机组			Engine 发动机		Alternator 发电机		Controller 控制器		Overall Dimensions 外形尺寸 (mm)	Weight 重量 (Kg)
Gensets Model 机组型号	Standby Power 备用功率 KW	Prime Power 主用功率 KW	Brand 品牌	Model 型号	Brand 品牌	Model 型号	Brand 品牌	Model 型号		
12V4000DS1650	1416	1272	MTU	12V4000G14F	MTU	LSA53.2 VL6	MTU	DGC2020HD	4059 x 1810 x 2330	10654
12V4000DS1750	1496	1350	MTU	12V4000G14F	MTU	LSA53.2 VL6	MTU	DGC2020HD	4059 x 1810 x 2330	10654
12V4000DS2000	1664	1504	MTU	12V4000G24F	MTU	LSA53.2 VL6	MTU	DGC2020HD	4059 x 1810 x 2330	10949
12V4000DS2250	1840	1664	MTU	12V4000G34F	MTU	LSA53.2 XL9	MTU	DGC2020HD	4077 x 1810 x 2330	11130
16V4000DS2250	1880	1728	MTU	16V4000G14F	MTU	LSA53.2 XL9	MTU	DGC2020HD	4766 x 1810 x 2330	12428
16V4000DS2500	2064	1880	MTU	16V4000G24F	MTU	LSA53.2 XL11	MTU	DGC2020HD	4766 x 1810 x 2330	13395
16V4000DS2750	2280	2080	MTU	16V4000G34F	MTU	LSA 53.2 XL11	MTU	DGC2020HD	4880 x 1810 x 2350	14450
20V4000DS2750	2320	2112	MTU	20V4000G14F	MTU	LSA53.2 ZL12	MTU	DGC2020HD	5350 x 1810 x 2348	16554
20V4000DS3100	2560	2328	MTU	20V4000G24F	MTU	LSA53.2 ZL14	MTU	DGC2020HD	5760 x 1810 x 2348	16920
20V4000DS3300	2744	2504	MTU	20V4000G34F	MTU	LSA54.2 XL11	MTU	DGC2020HD	5760 x 1887 x 2332	15819
20V4000DS3600	2984	2704	MTU	20V4000G44F	MTU	LSA54.2 ZL12	MTU	DGC2020HD	6249 x 1887 x 2412	18420
20V4000DS4000	3160	2904	MTU	20V4000G44LF	MTU	LSA54.2 ZL14	MTU	DGC2020HD	6339 x 1887 x 2415	19350

Speed 转速 : 1500rpm ; Frequency 频率 : 50Hz ; Output voltage 输出电压 : 10.5KV

The above data does not include the cooling water tank. Please consult our sales manager for specific data.

The above equipment is an original MTU product, and our company provides agent services and technical support.

以上数据不包括散热水箱，具体数据请咨询我司销售经理。

以上设备为 MTU 原厂产品，本公司提供代理商服务和技术支持。



Generator Set 发电机组			Engine 发动机		Alternator 发电机		Controller 控制器		Overall Dimensions 外形尺寸 (mm)	Weight 重量 (Kg)
Gensets Model 机组型号	Standby Power 备用功率 KW	Prime Power 主用功率 KW	Brand 品牌	Model 型号	Brand 品牌	Model 型号	Brand 品牌	Model 型号		
C55D5	44	40	Cummins	4BT3.9-G2	Cummins	UCI224D	Cummins	PC1.1	1920×1050×1468	990
C100D5	80	73	Cummins	6BT5.9-G1	Cummins	UCI274C	Cummins	PC1.1	2374×1050×1548	1509
C110D5	88	80	Cummins	6BT5.9-G2	Cummins	UCI274C	Cummins	PC1.1	2374×1050×1548	1534
C175D5B	140	128	Cummins	6BTAA5.9-G15	Cummins	UCI274F	Cummins	PC1.1	2537×1090×1846	1517
C200D5	160	145	Cummins	6CTA8.3-G2	Cummins	UCI274H	Cummins	PC1.1	2463×1050×1811	1881
C220D5	176	160	Cummins	6CTAA8.3-G7	Cummins	UCI274H	Cummins	PC1.2	2746×1100×1646	2050
C250D5	200	182	Cummins	6CTAA8.3-G9	Cummins	UCD1274J	Cummins	PC1.2	2746×1100×1646	2100
C300D5B	240	220	Cummins	6LTAA9.5-G3	Cummins	HCI4D	Cummins	PC1.2	2800×1100×1871	2951
C350D5B	280	256	Cummins	6LTAA9.5-G1	Cummins	HCI4E	Cummins	PC1.2	2800×1100×1871	3035
C400D5	320	288	Cummins	QSZ12-G1	Cummins	S4F	Cummins	PC2.2	3686×1100×2180	3769
C450D5	360	328	Cummins	QSG12-G2	Cummins	S4G	Cummins	PC2.2	3686×1100×2180	3769
C500D5	400	364	Cummins	QSZ13-G5	Cummins	HCI544D	Cummins	PC2.2	3376×1500×2192	4769
C550D5E	440	400	Cummins	QSX15-G8	Cummins	HCI544D	Cummins	PC2.2	3427×1500×2066	4130
C640D5	505	460	Cummins	KTAA19-G6	Cummins	HCI544E	Cummins	PC1.2	3684×1454×2000	4703
C700D5	565	512	Cummins	VTA28-G5	Cummins	HCI544F	Cummins	PC1.2	3977×1702×2219	6210
C825D5	660	600	Cummins	VTA28-G6	Cummins	HCI634G	Cummins	PC1.2	4090×1874×2098	6560
C900D5	720	656	Cummins	QSK23-G3	Cummins	HCI634H	Cummins	PC3.3	4169×1689×2120	6882
C1000D5	850	810	Cummins	KTAA38-G5	Cummins	HCI634J	Cummins	PC3.3	4374×1785×2229	8057
C1250D5A	1000	900	Cummins	KTAA38-G9	Cummins	PI734A	Cummins	PC3.3	4722×1785×2241	8569
C1400D5	1120	1000	Cummins	KTAA50-G3	Cummins	PI734B	Cummins	PC3.3	5105×2000×2238	10075
C1675D5	1340	1120	Cummins	KTAA50-G8	Cummins	PI734D	Cummins	PC3.3	5690×2033×2330	10626
C1675D5A	1340	1200	Cummins	KTAA50-GS8	Cummins	PI734D	Cummins	PC3.3	5690×2033×2330	10626
C2000D5	1650	1500	Cummins	QSK60-G3	Cummins	PI734F	Cummins	PC3.3	6180×2286×2537	15945
C2250D5	1800	1600	Cummins	QSK60-G4	Cummins	PI734G	Cummins	PC3.3	6180×2286×2537	15960
C2500D5A	2000	1800	Cummins	QSK60-G8	Cummins	PI734H	Cummins	PC3.3	6180×2494×3041	17790
C2750D5BE	2200	2000	Cummins	QSK60-G23	Cummins	LVS1804W	Cummins	PC3.3	7108×2384×3403	24709

The above data is for reference only. Please consult our company or local distributors for specific projects.
The above equipment is an original MTU product, and our company provides agent services and technical support.

GAS GENERATOR SET

优轲电气 ◆ 燃气发电机组

Equipment Introduction 设备简介	The natural gas generator set of VOYOKO adopts famous brand gas engine, generator and control system. It is characterized by advanced program, reasonable structure, reliable performance, low noise and vibration, convenient startup, convenient installation and maintenance. It is suitable for cool production, pumping station and small power station. 优轲电气的天然气发电机组选用知名品牌燃气发动机、发电机和控制系统。它的特性是程序先进，结构合理，性能可靠，噪声和震动低，启动便利，安装和维护方便。适用于生产、泵站和小型电站等。
Equipment Features 设备特点	Environmental Protection The emission of natural gas generator set is low in tail gas, and there is almost no air pollution. 环保：天然气发电机组排放的是低尾气有害物，几乎没有空气污染。 Safe and Reliable The natural gas generator set is equipped with brush less self excitation generator set with voltage regulator. 安全可靠：天然气发电机组配备的是带电压调节器的无刷自励发电机组。 Four Protection Functions The control panel adopts high-quality monitoring instrument and has the protection function when the voltage is too low. At the same time, it also monitors the parameters, such as speed, coolant temperature, and oil pressure, and initiates alarm and emergency shutdown in case of abnormal conditions. 四保护功能：控制面板采用高品质的监控仪表，具有电压过低时的保护功能。与此同时，还监测参数，如速度，冷却液温度，和机油压力等，异常情况时启动报警和紧急停机。
Natural Gas Composition Requirements 气体成分要求	Calorific value : $\geq 41860 \text{ KJ/m}^3$ Methane value : $\geq 70\%$ (by volume) Sulfur content : $\leq 460 \text{ mg/m}^3$ Atmospheric pressure : $80 \sim 200 \text{ kpa}$ (Depending on the engine model) Gas should be exact dry after processed and dirty mixed on the gas should be less than 0.005 mm, dirty contents should be not larger than 0.03 mg/m^3. 热量值 : $\geq 41860 \text{ KJ/m}^3$ 甲烷值 : $\geq 70\%$ (by volume) 硫含量 : $\leq 460 \text{ mg/m}^3$ 大气压 : $80 \sim 200 \text{ kpa}$ (取决于不同的发动机型号) 经过处理以及与浑浊气混合之后气体必须干燥。应小于 0.005 mm，浑浊气不能大于 0.03 mg/m^3。

Electrical
Performance Index
电气性能

Voltage
电压

Steady state adjustment rate (%) : $\leq \pm 2.5$
 Transient state adjustment rate (%) : 20~-15
 Stabilization time (s) : ≤ 1.5
 Volatility (%) : ≤ 1.0
 稳态调整率 (%) : $\leq \pm 2.5$
 瞬态调整率 (%) : 20~-15
 稳定时间 (s) : ≤ 1.5
 波动率 (%) : ≤ 1.0

Frequency
频率

Steady state adjustment rate (%) : $\leq \pm 2.5$
 Transient state adjustment rate (%) : 20~-15
 Stabilization time (s) : ≤ 1.5
 Volatility (%) : ≤ 1.0
 稳态调整率 (%) : $\leq \pm 2.5$
 瞬态调整率 (%) : 20~-15
 稳定时间 (s) : ≤ 1.5
 波动率 (%) : ≤ 1.0

Voltage Regulation
电压调节

When idling, the rated voltage is adjusted between 95 ~ 105%
 当怠速运转时，额定的电压调节在 95~105%



VYG 系列 ♦ VYG series
POWERS BY YUCHAI

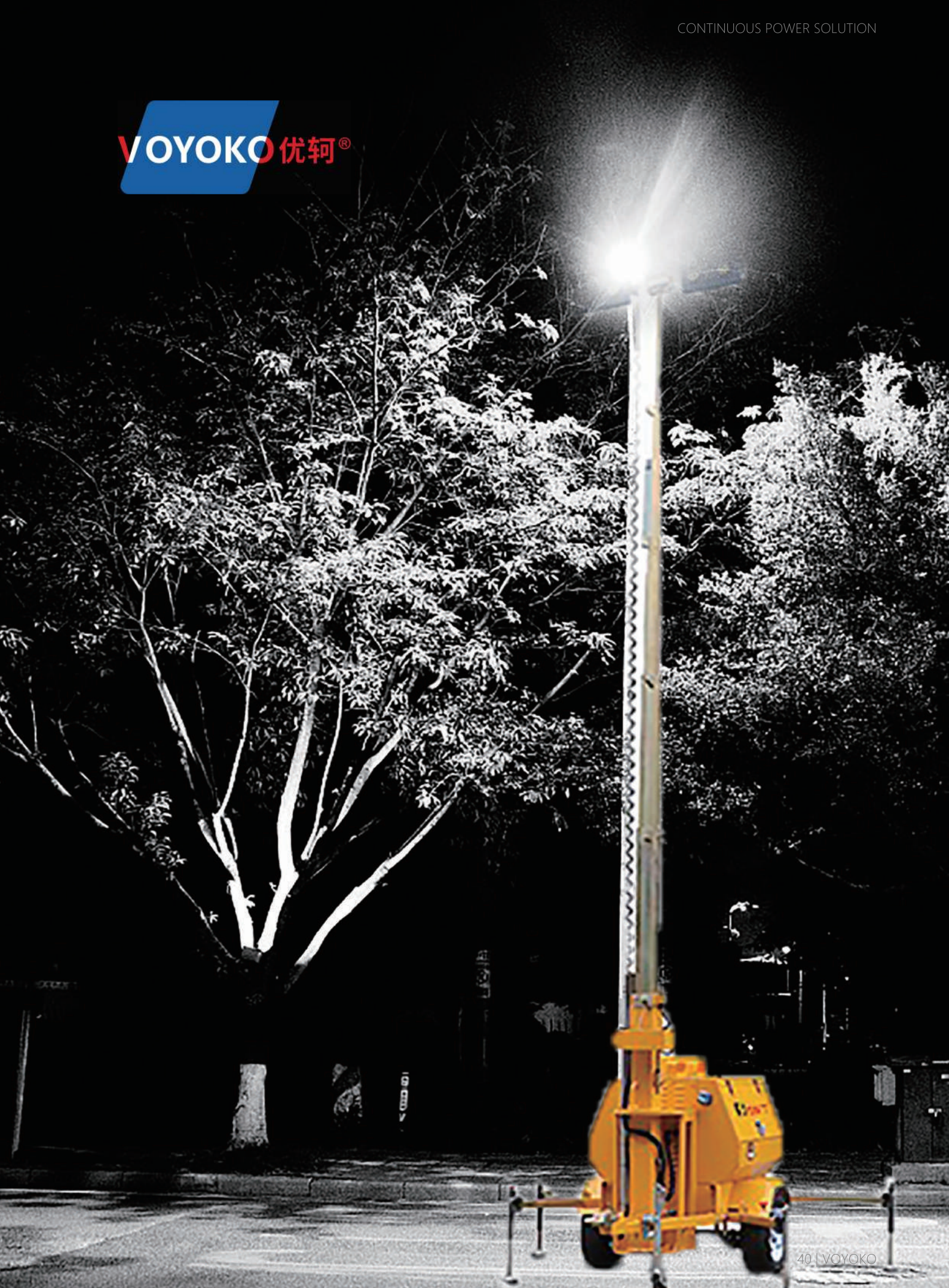
机组型号 Genset Model	PRP (KVA/KW)	电效率 Electrical Efficiency	发动机型号 Engine Model	控制系统 Control System	缸径/冲程 Bore/stroke (mm)	压缩比 Compression Ratio	排量 Displacement (L)	机油容量 Lub. Oil Capacity (L)	冷却液容量 Coolant Capacity (L)	燃气消耗 Gas Consumption (m ³ /h)
VY125G5	125/100	≥32.3%	YC6G180N-D30	ECU 电控	112/132	11.5:1	7.8	22	51	34.0
YCG-100N5LC										
VY312G5	312.5/250	≥35.1%	YC6K420N-D30		129/165	10.5:1	12.94	32	72	78.2
YCG-250N5LC										
VY437G5	437.5/350	≥38%	YC6TD600N-D30		152/180	11.5:1	19.6	65	50	108.8
YCG-350N5LC										
VY625G5	625/500	≥33.2%	YC6C935N-D30		200/210	11.5:1	39.6	160	120	190.1
YCG-500N5LC										
VY1000G5	1000/800	≥38%	YC12VTD1320N-D30		152/180	12.5:1	39.2	210	153	241
YCG-800N5LC										
VY1250D53	1250/1000	≥38%	YC12VC1680N-D31		200/210	11.5:1	79.17	280	200	309
YCG-1000N5LC										

测试条件 Test Condition :

燃气热值	Gas heat value	9.1 g/kwh	甲烷体积含量	Methane volume content	≥95%
燃气温度	Gas temperature	-2 0~+50℃	燃气湿度	Gas humidity	60%
燃气进气压力	Intake pressure of gas	10~30 kPa	空气进气负压	Negative pressure of air intake	> -3kPa
排气背压	Exhaust back pressure	< 5kPa	绝对大气压力	Absolute atmospheric pressure	101.32kPa
环境温度	Ambient temperature	25℃	相对湿度	Relative humidity	30%
海拔高度	Altitude	≤1000m			

※ 表中数据是在上述环境测得 All data of the gas generator are measured under the above test environment.

VOYOKO 优轲®



MOBILE LIGHTING TOWER

优轲电气 ◆ 移动灯塔

VOYOKO is one of the best manufacturer who designs, manufacturer and sells lighting towers. We have the most complete types of products. So far, we have already provider over than 10,000 special diesel gen-sets and lighting towers for Industry and mining users in the Middle East, Southeast Asia, Africa and Oceania etc.

VOYOKO 是设计、制造和销售灯塔的最佳供应商之一。我们的产品种类齐全。迄今为止，我们已经为南美、中东、东南亚、非洲和大洋洲等地的工矿用户提供了 10000 多台专用柴油发电机和灯塔。

Vi9 Series



VHV Series



VTN Series



VHKP Series



Product Features

产品特点

◆ It can be equipped with traditional metal halide lamps, or with 4×300W high power, high luminous efficiency and energy-saving LED lamps.

配备传统的金属卤化物灯，也可以配备4×300W高功率、高发光效率和节能的LED灯。

◆ The whole structure is compact, light, beautiful, and equipped with a large capacity of 100L fuel tank. The container loading capacity of lighting tower can reach 16 units.

整个结构紧凑、轻便、美观，配备100L的大容量油箱。集装箱装载能力可以达到16台。

◆ The new developed electric winch is adopted for the mast lifting, which is easy to operate simply. Manual operation will be added later to improve product safety reliability.

桅杆吊装采用新开发的电动绞车，操作简便。可以增加手动操作，提高产品的安全可靠。

◆ High strength support legs and increased support radius are adopted to enhance the stability of lighting tower in the wind.

采用高强度支腿，增加支腿半径，增强灯塔在风中的稳定性。

Vi9 系列 ◆ Vi9 series
POWERS BY KUBOTA

Dimensions 外观参数	Length 长	2300mm	2420mm
	Width 宽	1360mm	1360mm
	Height 高	2900mm	3050mm
	Loading container height 集装箱装箱高度	2480mm	2600mm
	Full extending height 全延伸高度	9m	9m
Engine 发动机	Generator set power (1500rpm/1800rpm) 发电机功率	3kw/3.5kw	6kw/7.5kw
	Gross weight 毛重	810kg	850kg
	Model 型号	Z482 (Kubota 久保田)	D1105 (Kubota 久保田)
	Speed(rpm) 转速	1500/1800	1500/1800
	Number of cylinders 缸数	2	3
Alternator 发电机	Engine characters 发动机描述	4 cycles, Water-cooled, Diesel 四冲程，水冷，柴油	4 cycles, Water-cooled, Diesel 四冲程，水冷，柴油
	Combustion system 燃烧方式	E-TVS	E-TVS
	Engine aspiration 吸气方式	Naturally aspirated 自然吸气	Naturally aspirated 自然吸气
	Emission level 排放	Regular	Regular
	Model 型号	Meccalte LT3N-75/4	Meccalte LT3N-130/4
Mast & Lights 桅杆和灯光	Frequency 频率 (Hz)	50/60	50/60
	Rated Voltage 额定电压 (V)	220/110 (50Hz) ; 240/120 (60Hz)	220/110 (50Hz) ; 240/120 (60Hz)
	Alternator insulation 绝缘等级	AC Class H	AC Class H
	Alternator protection grade 防护等级	IP23	IP23
	Type of Lights 灯光类型	LED	Regular metal halide 金属卤素灯
	Light's fixture 灯具形状	Rectangle 长方形	Oval 椭圆形
	Luminous flux 光强度 (LM)	33000 LM/Light	110000 LM/Light
	Number & Power of lights 灯具功率和数量	4×300W	4×1000W
	Number of mast sections 桅杆节数	6	6
	Mast extension 桅杆延长	Electrical winch 电动绞车	Electrical winch 电动绞车
	Mast rotation 桅杆旋转方式	330°Manual rotation with self locking 带自锁的 330°手动旋转	330°Manual rotation with self locking 带自锁的 330°手动旋转
	Light tilt 灯光倾斜	Manually 手动	Manually 手动

Trailer 拖车	Trailer suspension & axle with brakes 拖车悬架和制动器的车轴	Leaf springs axle without brake 不带制动器的钢板弹簧车桥	Leaf springs axle without brake 不带制动器的钢板弹簧车桥
	Tow bar 牵引杆	A style frame with a supporting jack 带支撑千斤顶	A style frame with a supporting jack 带支撑千斤顶
	Stabilizing legs & number 稳定支腿和数量	4 pcs drawbar bar with manual jacks 4 根带手动千斤顶的拉杆	4 pcs drawbar bar with manual jacks 4 根带手动千斤顶的拉杆
	Wheel's rim size & tires 轮胎尺寸和轮胎	14" rim with regular tires 14 英寸轮胎的普通轮胎	14" rim with regular tires 14 英寸轮胎的普通轮胎
	Tow adapter 牵引适配器	2" ball coupler or 3" pintle ring 2 " 球形联轴器或 3 " 枢轴环	2" ball coupler or 3" pintle ring 2 " 球形联轴器或 3 " 枢轴环
	Tail lights	Reflector	Reflector
	Max. towing speed 最大牵引速度	80km/h	80km/h
	Fuel tank type 燃油箱类型	Rotational moulding plastic 滚塑成型塑料	Rotational moulding plastic 滚塑成型塑料
	Fuel tank capacity 燃油箱容量	76 L	100 L
	Operating hours with full fuel 满载运行时间	59/53 hours	28/23 hours
Additional Features 其他功能	Generator starting type or controller 启动型式和控制器	SMARTGEN HGM1780 众智 HGM1780	SMARTGEN HGM1780 众智 HGM1780
	Power outlet sockets 电源插座	1 set	1 set
	Max. against wind when fully extended 完全伸展时的最大逆风	17.5 m/s	17.5 m/s
	Acoustic pressure 噪声	72 dB(A) at 7m away	72 dB(A) at 7m away
	Max. # of units loading in 40' high container 40' 高装中的最大载量	9 sets	16 sets



VHV 系列 ◆ VHV series

POWERS BY KUBOTA

Dimensions 外观参数	Length 长	4000mm	4000mm
	Width 宽	1620mm	1620mm
	Height 高	2460mm	2460mm
	Loading container height 集装箱装箱高度	2480mm	2600mm
	Full extending height 全延伸高度	9m	9m
Engine 发动机	Generator set power (1500rpm/1800rpm) 发电机功率	3kw/3.5kw	6kw/7.5kw
	Gross weight 毛重	1360kg	1410kg
	Model 型号	Z482 (Kubota 久保田)	D1105 (Kubota 久保田)
	Speed(rpm) 转速	1500/1800	1500/1800
	Number of cylinders 缸数	2	3
Alternator 发电机	Engine characters 发动机描述	4 cycles, Water-cooled, Diesel 四冲程, 水冷, 柴油	4 cycles, Water-cooled, Diesel 四冲程, 水冷, 柴油
	Combustion system 燃烧方式	E-TVS	E-TVS
	Engine aspiration 吸气方式	Naturally aspirated 自然吸气	Naturally aspirated 自然吸气
	Emission level 排放	Regular	Regular
	Model 型号	Meccalte LT3N-75/4	Meccalte LT3N-130/4
Mast & Lights 桅杆和灯光	Frequency 频率 (Hz)	50/60	50/60
	Rated Voltage 额定电压 (V)	220/110 (50Hz) ; 240/120 (60Hz)	220/110 (50Hz) ; 240/120 (60Hz)
	Alternator insulation 绝缘等级	AC Class H	AC Class H
	Alternator protection grade 防护等级	IP23	IP23
	Type of Lights 灯光类型	LED	Regular metal halid 金属卤素灯
	Light's fixture 灯具形状	Rectangle 长方形	Oval 椭圆形
	Luminous flux 光强度 (LM)	33000 LM/Light	110000 LM/Light
	Number & Power of lights 灯具功率和数量	4×300W	4×1000W
	Number of mast sections 桅杆节数	7	7
	Mast extension 桅杆延长	Manually 手动	Manually 手动
	Mast rotation 桅杆旋转方式	359°rotating manually (330°self-locking) 359°手动旋转 (330°自锁)	359°rotating manually (330°self-locking) 359°手动旋转 (330°自锁)
	Light tilt 灯光倾斜	Electric actuator 电动执行器	Electric actuator 电动执行器

Trailer 拖车	Trailer suspension & axle with brakes 拖车悬架和制动器的车轴	Leaf springs & single axle without brake 板簧、单轴，不带制动器	Leaf springs & single axle without brake 板簧、单轴，不带制动器
	Tow bar 牵引杆	Retractable guide wheel 可伸缩导向轮	Retractable guide wheel 可伸缩导向轮
	Stabilizing legs & number 稳定支腿和数量	4 pcs drawbar bar with manual jacks 4 根带手动千斤顶的拉杆	4 pcs drawbar bar with manual jacks 4 根带手动千斤顶的拉杆
	Wheel's rim size & tires 轮胎尺寸和轮胎	14" rim with regular tires 14 英寸轮辋的普通轮胎	14" rim with regular tires 14 英寸轮辋的普通轮胎
	Tow adapter 牵引适配器	2" ball coupler 2 " 球形联轴节	2" ball coupler 2 " 球形联轴节
	Tail lights 尾灯	Tail light kit 尾灯套件	Tail light kit 尾灯套件
	Max. towing speed 最大牵引速度	100km/h	100km/h
	Fuel tank type 燃油箱类型	Double wall fuel tank 双层燃油箱	Double wall fuel tank 双层燃油箱
	Fuel tank capacity 燃油箱容量	120 L	120 L
	Operating hours with full fuel 满载运行时间	93/84 hours	49/41 hours
Additional Features 其他功能	Generator starting type or controller 启动型式和控制器	SMARTGEN HGM1780 众智 HGM1780	SMARTGEN HGM1780 众智 HGM1780
	Power outlet sockets 电源插座	1 set	1 set
	Maintenance tool 维护工具	Option 可选	Option 可选
	Max. against wind when fully extended 完全伸展时的最大逆风	20 m/s	20 m/s
	Acoustic pressure 噪声	70 dB(A) at 7m away	70 dB(A) at 7m away
	Standard colour 标准颜色	Optional regular canopy's colour, galvanized masts, tow bar & stabiliz 可选常规雨棚颜色、镀锌桅杆、牵引杆和稳定器	
	Max. # of units loading in 40' high container 40'高装中的最大载量	7 sets	7 sets

VTN 系列 ♦ VTN series
POWERS BY KUBOTA

Dimensions 外观参数	Length 长	4360mm	4360mm
	Width 宽	1430mm	1430mm
	Height 高	1450mm	1450mm
	Loading container height 集装箱装箱高度	2480mm	2600mm
	Full extending height 全延伸高度	9m	9m
Engine 发动机	Generator set power (1500rpm/1800rpm) 发电机功率	3kw/3.5kw	6kw/7.5kw
	Gross weight 毛重	910kg	960kg
	Model 型号	Z482 (Kubota 久保田)	D1105 (Kubota 久保田)
	Speed(rpm) 转速	1500/1800	1500/1800
	Number of cylinders 缸数	2	3
	Engine characters 发动机描述	4 cycles, Water-cooled, Diesel 四冲程, 水冷, 柴油	4 cycles, Water-cooled, Diesel 四冲程, 水冷, 柴油
	Combustion system 燃烧方式	E-TVS	E-TVS
	Engine aspiration 吸气方式	Naturally aspirated 自然吸气	Naturally aspirated 自然吸气
	Emission level 排放	Regular	Regular
	Model 型号	Meccalte LT3N-75/4	Meccalte LT3N-130/4
Alternator 发电机	Frequency 频率 (Hz)	50/60	50/60
	Rated Voltage 额定电压 (V)	220/110 (50Hz); 240/120 (60Hz)	220/110 (50Hz); 240/120 (60Hz)
	Alternator insulation 绝缘等级	AC Class H	AC Class H
	Alternator protection grade 防护等级	IP23	IP23
	Type of Lights 灯光类型	LED	Regular metal halide 金属卤素灯
	Light's fixture 灯具形状	Rectangle 长方形	Oval 椭圆形
Mast & Lights 桅杆和灯光	Luminous flux 光强度 (LM)	33000 LM/Light	110000 LM/Light
	Number & Power of lights 灯具功率和数量	4×300W	4×1000W
	Number of mast sections 桅杆节数	3	3
	Mast extension 桅杆延长	Manually 手动	Manually 手动
	Mast rotation 桅杆旋转方式	359°rotating manually (330°self-locking) 359°手动旋转 (330°自锁)	359°rotating manually (330°self-locking) 359°手动旋转 (330°自锁)
	Light tilt 灯光倾斜	Manually 手动	Manually 手动

Trailer suspension & axle with brakes 拖车悬架和制动器的车轴	Leaf springs & single axle without brake 板簧、单轴，不带制动器	Leaf springs & single axle without brake 板簧、单轴，不带制动器	Trailer suspension & axle with brakes 拖车悬架和制动器的车轴
Tow bar 牵引杆	Retractable & adjustable supporting wheel tow bar 伸缩可调支撑轮牵引杆		
Stabilizing legs & number 稳定支腿和数量	4 pcs drawbar bar with manual jacks 4 根带手动千斤顶的拉杆	4 pcs drawbar bar with manual jacks 4 根带手动千斤顶的拉杆	
Wheel's rim size & tires 轮胎尺寸和轮胎	14" rim with regular tires 14 英寸轮辋的普通轮胎	14" rim with regular tires 14 英寸轮辋的普通轮胎	
Tow adapter 牵引适配器	2" ball coupler 2 " 球形联轴轴器	2" ball coupler 2 " 球形联轴轴器	
Tail lights 尾灯	Tail light kit 尾灯套件	Tail light kit 尾灯套件	
Max. towing speed 最大牵引速度	80km/h	80km/h	
Fuel tank type 燃油箱类型	Rotational moulding plastic 滚塑成型塑料	Rotational moulding plastic 滚塑成型塑料	
Fuel tank capacity 燃油箱容量	170 L	170 L	
Operating hours with full fuel 满载运行时间	132/118 hours	70/58 hours	
Wires & electric components 电线和电气元件	Regular 常规	Regular 常规	
Generator starting type or controller 启动型式和控制器	SMARTGEN HGM1780 众智 HGM1780	SMARTGEN HGM1780 众智 HGM1780	
Power outlet sockets 电源插座	2 sets	2 sets	
Maintenance tool 维护工具	Option 可选	Option 可选	
Max. against wind when fully extended 完全伸展时的最大逆风	20 m/s	20 m/s	
Acoustic pressure 噪声	70 dB(A) at 7m away	70 dB(A) at 7m away	
Standard colour 标准颜色	Optional regular canopy's colour, galvanized masts, tow bar & stabilizer bar 可选常规雨棚颜色、镀锌桅杆、牵引杆和稳定器		
Max. # of units loading in 40' high container 40'高装中的最大载量	12 sets	12 sets	

Trailer
拖车Additional
Features
其他功能

VHKP 系列 ◆ VHKP series

POWERS BY KUBOTA

Dimensions 尺寸/重量	Length	4800mm
	Width	2830mm
	Height	2900mm
	Full extending height	10m
	Generator set power (1500rpm/1800rpm)	6/7.5kw
	Gross weight	2116kg
Engine 发动机	Model	D1105-BG (KUBOTA)
	Speed(rpm)	1500/1800
	Number of cylinders	3
	Engine characters	4 cycles, Water-cooled, Diesel
	Combustion system	E-TVS
	Engine aspiration	Naturally aspirated
Alternator 发电机	Emission level	Regular
	Model	Meccalte LT3N-130/4
	Frequency (Hz)	50/60
	Rated Voltage (V)	220/110 (50Hz) ; 240/120 (60Hz)
	Alternator insulation	AC Class H
Mast & Lights 桅杆和灯光	Alternator protection grade	IP23
	Type of Lights	LED
	Light's fixture	Rectangle
	Luminous flux (LM)	33000 LM/Light
	Number & Power of lights	12×300W
	Number of mast sections	3
	Mast lifting	Hydraulic
	Mast extension	Hydraulic
	Mast rotation	359°rotating manually (330°self-locking)
Trailer 拖车	Light tilt	12V DC Electric actuator
	Trailer suspension & axle with brakes	Leaf springs & tandem axle with electromagnetic drum brakes
	Tow bar	Retractable guide wheel
	Stabilizing legs & number	4 pcs drawable bar with manual jacks
	Wheel's rim size & tires	16" rim with regular tires
	Tow adaper	2" ball coupler
	Tall lights	Tall light kit
Additional Features 其他功能	Max. towing speed	100km/h
	Electric standard	Australia electric standard, Australia & Mining configuration
	Fuel tank type	Double wall
	Fuel tank capacity	228L
	Operating hours with full fuel	93/78 hours
	Hydraulic components	Mining standard hose
	Wires & electric components	IP65
	Generator starting type or controller	SMARTGEN LT920 PLC
	Running indicator of generator	Rotating LED light
	Extinguisher	Only supply the mounting bracket
	Power outlet sockets	2 sets
	Maintenance tool	Option
	Max. against wind when fully extended	22 m/s
	Acoustic pressure	70 dB(A) at 7m away
	Standard colour	Optional regular canopy's colour, galvanized masts, tow bar & stabilizing legs
	Max. # of units loading in 40' high container	3

SPECIAL FORMS OF PRODUCTS

优轲电气 ◆ 特型产品

Mobile Power Station

移动电站

The mobile power station is the equipment that provides service for outdoor power supply. The VOYOKO series of electrical mobile power stations has a variety of structures and functions, such as automotive power stations, trailer power stations, mobile low noise power stations, mobile container power stations, etc.

移动电站是为室外供电提供服务的设备。VOYOKO 系列电动移动电站具有多种结构和功能，如汽车电站、拖车电站、移动低噪声电站、移动集装箱电站等。

- Traction: steel traction on the front, optional direct connection and 180° turntable.
牵引：前侧钢制牵引，可选直连式和 180°转盘。
- Brake: air brake interface and hand brake system to ensure emergency brake safety.
制动：有气刹接口和手摇式移动撞刹系统，确保紧急制动安全性。
- Support: mechanical or hydraulic device to ensure stability during operation.
支撑：机械或液压装置，保证操作时的稳定性。
- Damping: scientific design and efficient damping, reduce unit resonance.
减震：科学设计和高效减震，减少机组共振。
- Doors and Windows: equipped with ventilation doors and Windows, into the wind maze passage, out of the wind shutter.
门窗：配有通风门窗，进风迷宫通道，出风百叶窗。
- Lighting: the car is equipped with ceiling explosion-proof lamp, convenient for the staff to operate.
照明：车厢内配备吸顶防爆灯，方便工作人员操作。
- Appearance: upper/lower exhaust, salt spray proof coating, color warning mark.
外观：上/下排气，防盐雾外层涂装，色彩警示标志。
- External: equipped with external fuel tank, cable winch and brake indicator.
外置：设外置式油箱，电缆绞盘，刹车指示灯。



Cluster Power Station 集群电站

A certain number of generating units and related equipment will be formed into power stations, which can be used for peak-load electricity in remote areas or emergency power supply in Banks, hospitals, airports, mines and other important units. Generally, portable container power station is adopted, which has the characteristics of flexible installation and convenient movement.

将一定数量的发电机组以及相关设备组成发电站，可用于偏僻地区调峰用电或者银行，医院，机场，矿山等重要单位紧急供电。一般采用可移动的集装箱式电站，具有安装灵活、移动方便等特点，被广泛应用于中东、南美和非洲等国家和地区。

- Short Construction Period
建设周期短
- Flexible Adjusting Capacity
增减容量灵活
- Easy Management, Less Personnel Input
易于管理，人力投入少
- Convenience in Mobility
移动性强，搬迁方便
- Small Floor Space, Less Civil Work
占地面积小，无需厂房，土建工程量少



Silent Power Station 静音电站



Always Provide a Full Service in the Entire Life Cycle

优轲电气 ◆ 全程无忧服务

Pre-sale services

售前服务

Provide pre-sale technical support

Help to dispose the machine house and provide suggestions for installation

Help to choose gensets model, capacity and function

售前技术支持

机组选型建议

机房设计、布置和安装建议

After-sale service

售后服务

Electric connection commission and installation of equipment

Environment protection project

Residual heat utilization project

Fire protection project and test

Fault remedy and difficult problem explanation

Prompt & ample supply of spare parts, timely repair Gensets mandatory management

设备安装、调试及电气联接

机房环保工程

余热利用工程

快速提供零部件

消防检验检测

设备委托管理

设备维护保养和简单故障排除指导

Service Guarantee

服务承诺

Set up the customer record, follow-up service and visit periodically

Provide the training to the operator of users periodically

Can arrange personnel to help the operation during holiday or special day

Technical support and spare parts support from the world famous manufactures

Respond within 30 minutes after receiving the clam for repair from the customer, the service person will be sent within 2 hours

建立用户档案，跟踪服务，定期巡访

定期操作人员集中培训

协助值守

原厂技术和零部件供应

接报修后 30 分钟响应回复，2 小时派出人员

一般故障 8 小时给出处理结果，中大型故障 24 小时

Training 培训

On-site training of maintenance and operation

Technique upgrade training in the factory

Guidance and training in the factory

现场操作、保养培训

工厂集中技能提升培训

原厂指导培训

Supporting Engineering Services

配套工程

Power generation projects / Genset room design, installation, and commissioning

Environment protection and soundproof project, heat recovery project

Paralleling and synchronization project

机房/项目深化设计，设备安装，联动调试

环保降噪工程，热回收利用工程

并机并网工程

Additional instructions for computer room design

机房涉及附加说明

The correct selection and installation of generator sets is a key factor in achieving long-term trouble-free operation of generators.

Due to the limitation of maximum exhaust back pressure, the size of the exhaust pipe of the generator set is affected by its length and the number of bends.

Choosing cooling water tanks with different ambient temperatures can affect the overall size of the generator set, such as length and height.

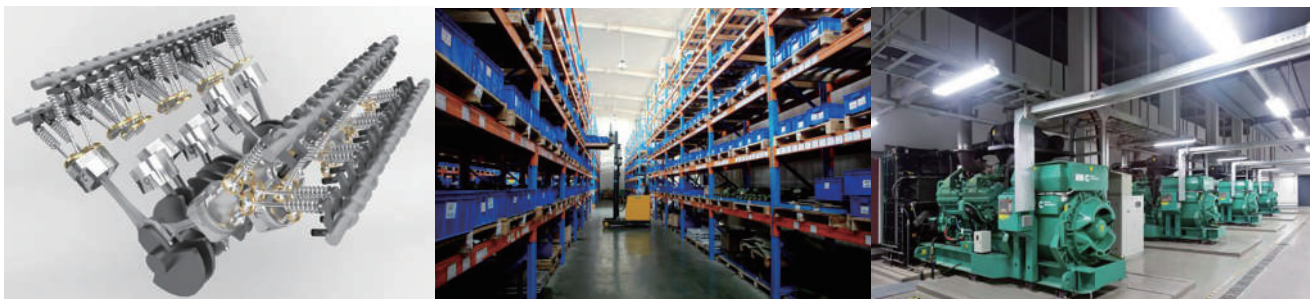
The length of the intake and exhaust silencers required for different noise reduction requirements also varies. Full consideration should be given to the design of the generator room.

正确的发电机组选型和安装是实现发电机组长时间无故障运行的关键因素。

因受最大排气背压的限制，发电机组排烟管的大小受其长度和弯头数量影响。

选择不同环境温度的散热水箱会影响发电机组的总体尺寸，例如长度和高度等。

不同的降噪要求所需的进排风消音器长度也不同。机房设计时应给予考虑。



BE GRATEFUL TO CUSTOMERS

优轸电气 ◆ 感恩用户



AI TECH FLSAY Data Industrial Park

爱特云翔大数据产业园

Equipment Model 设备型号	MTU-16V4000DS2500
Power Range 功率	2500KVA
Shipment Quantity 交货数量	7 sets



Kilauan Kayangan (M) Sdn. Bhd

Equipment Model 设备型号	VCSD52 series
Power Range 功率	150KVA~500KVA
Shipment Quantity 交货数量	37 sets



Everweb International (M) Sdn. Bhd

Equipment Model 设备型号	VCSD52 series
Power Range 功率	100KVA~500KVA
Shipment Quantity 交货数量	25 sets



CRCC (Guiyang) Cloud Data Center 中国铁建（贵阳）云数据中心

Equipment Model 设备型号	CUMMINS - C2500D5A
Power Range 功率	2250KVA
Shipment Quantity 交货数量	5 sets



Retro Innovations Sdn Bhd

Equipment Model 设备型号	VCSD52 series
Power Range 功率	100KVA~1000KVA
Shipment Quantity 交货数量	62 sets

APPLICATION CASES

优柯电气 ◆ 工程案例

Infrastructure 基础建设

Qingdao Jinding Commercial Plaza
青岛金鼎商业广场
Country Garden Forest City, Malaysia.
马来西亚碧桂园森林城市
Nanning Global Financial Center
南宁宝能环球金融中心
Qianxinan people's Hospital
黔西南州人民医院



Electricity&Energy 电力能源

Zhaoyuan Gold Group Co., Ltd.
招金集团新疆若羌矿业
Shandong Gold Group Co., Ltd.
山东黄金集团内蒙古呼伦贝尔矿业
Power Plant of Weiqiao Venture Group
魏桥创业集团电厂黑启动电源
Luobupo mine of Xinwen Mining Group
新矿集团新疆罗布泊矿业自备电源



Manufacturing 工业制造

Sinoma Jinjing Glass Fiber Co., Ltd.
中材金晶玻纤有限公司
Yantai Juli Chemical Co., Ltd.
烟台巨力化学有限公司
Vietnam Foxconn Guangzhou Factory
越南富士康光州厂区
Muyuan Food Co., Ltd.
牧原食品股份有限公司



Oil Fired Power Station 燃油集群电站

Myanmar Wa State Concentrator
缅甸佤邦曼相矿区选矿厂
Liberia 15MW heavy oil power station
利比里亚15MW 重油电站
45MW diesel power station of SEC
沙特电力45MW 柴油发电站
Australia mining 20MW oil power plant
澳洲矿业20MW 燃油电厂



Gas Power Station 燃气电站

Jiangxi Dingnan biogas power station
江西正合定南沼气发电站
Wuhan biogas cogeneration project
武汉壹和城新洲沼气热电联产项目
Biogas power station of Jinlin pig farm
湖北金林养猪沼气发电项目
Wuchang straw biogas power station
五常市拉林德润秸秆利用沼气发电项目



IDC 数据中心

Bangladesh national data center
孟加拉国家数据中心
Qichuang network data center
东莞奇创网络数据中心
CRCC (Guiyang) Cloud Data Center
中国铁建（贵阳）云数据中心
AI TECH FLSAY Data Industrial Park
爱特云翔大数据产业园





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 VLADIVOSTOK SAINT PETERSBURG DUBAI SANTO DOMINGO KUALA LUMPUR
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VOTOKO ELECTRIC
CONTINUOUS POWER SOLUTION
连续电源解决方案

优轲（山东）电气科技有限公司

VOYOKO (SHANDONG) ELECTRIC TECHNIQUE CO., LTD.

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