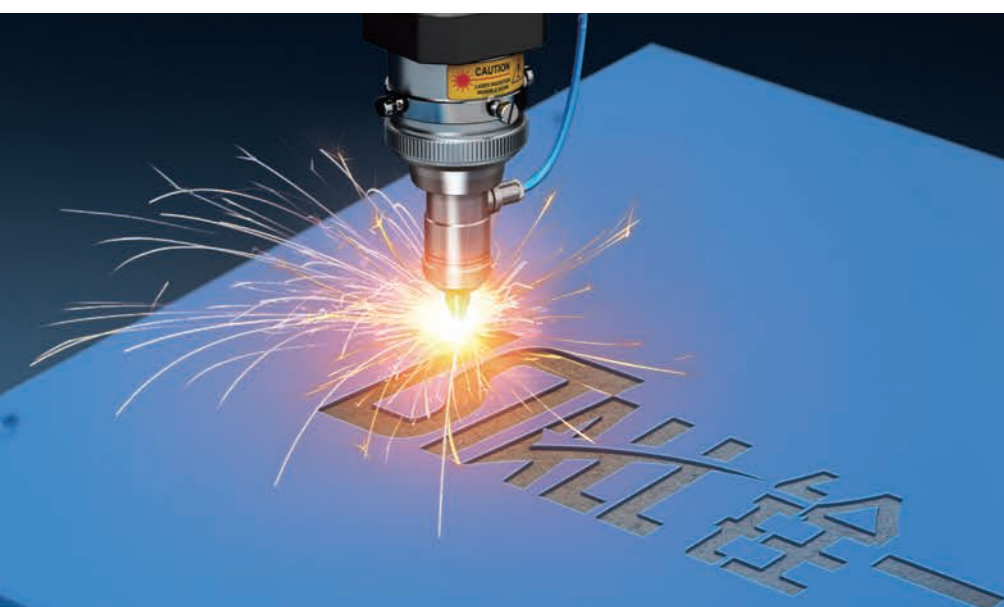




铨一电源科技

FIRSTALL POWER TECHNOLOGY



福建铨一电源科技有限公司
FUJIAN FIRSTALL POWER TECHNOLOGY CO., LTD.

地址:福建省福安市秦溪洋工业区403号
Add: No.403 Qinxiyang Industry Zone, Fuan, Fujian, China

TEL: +86-593-6596663
FAX: +86-593-6068989

苏州弗斯特欧机电科技有限公司
SUZHOU FIRSTALL ELECTRICAL MACHINE & TECHNOLOGY CO., LTD.

地址:苏州市新区邓尉路9号润捷广场
Add: Runjie Plaza, No.9, Dengwei Road, New District, Suzhou, China

TEL: +86-512-68022178 / 68022176
FAX: +86-512-68022175

✉ sales@firstallpower.com
🌐 www.firstallpower.com

福建铨一电源科技有限公司
FUJIAN FIRSTALL POWER TECHNOLOGY CO., LTD.

ALTERNATOR

陆用无刷交流同步发电机
Industrial Brushless AC Synchronous Alternator

铨一，品质始终如一
FIRSTALL, QUALITY FIRST

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2018

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企业文化

COMPANY CULTURE

愿景 VISION

成为全球领先的智能能源供电系统设备制造商。
To be the global leading manufacturer of intelligence power energy supply system.

使命 MISSION

为全球智能能源发电系统提供最优质的发电设备及整体解决方案。
Provide the best quality power generation equipment and the overall solution for the global intelligent energy generation system.

经营理念 BUSINESS PHILOSOPHY

专业化经营，个性化设计，为客户提供整体解决方案，引领市场需求。
Professional management, personalized design, to provide customers with the overall solution to lead the market demand.



核心价值观 CORE VALUES

专业
PROFESSIONAL

独具匠心，精益求精，工匠精神
Ingenuity, excelsior and craftsman spirit

诚信
INTEGRITY

诚信是发展的基础，成功的基石
Integrity are the foundation of development and the cornerstone of success

创新
INNOVATION

创新，永无止境
Innovation, never stop

共赢
WIN-WIN

风险共担，成果共享
Risk sharing and Achievements sharing





企业简介

COMPANY INTRODUCTION

福建铨一电源科技有限公司坐落在具有 60 年历史的中国中小型电机之都，人文生态城市—福建省福安市。公司以满足及引领市场需求为己任，全方位为客户提供专业化、个性化的产品及发电供电整体解决方案。公司专业生产高能量密度及高可靠性的能源供应系统核心装备—智能永磁无刷发电机，功率范围涵盖 5KVA-2500KVA，精准的 SAE 接口可完美匹配国内外各主流品牌的原动机，并可根据客户提供专业的

备件和技术服务支持。公司配备了全套智能的生产设备、检验设备、测试中心系统及新产品研发系统，通过了 ISO9001/2008 国际质量管理体系认证，产品获得了出口欧美的 CE 认证及 20 多项发明及实用新型专利。公司拥有一支充满激情的来自行业标杆企业的专业资深团队，并引进了可视化的实时管控管理模式，建立了高标准的质量管理体系及质量可追溯体系，从设计建模计算、设计验证与实验、材料选用到工艺管控、产品的终

端检验等方面全过程系统把关。精湛的绕组设计，严谨的生产工艺，可靠的 AVR 等优质部件，紧凑和易于安装的产品结构，高性能的电气系统，IP23 国际标准防护，长达 500 小时的持续耐久实验等各种优势，确保了产品与各种主流动力系统均具有良好的匹配性，对各种环境具备优异的适应性等诸多优势。公司产品获得了市场的充分认可，行销全国并出口到欧洲、亚洲、美洲等 30 多个国家和地区。

Fujian Fir stall Power Technology Co., Ltd. is located in Fu'an City, Fujian province, China. The company specializes in producing high energy density and high reliability intelligent permanent magnet brushless alternator, the power range covers 5KVA-2500KVA. Through the ISO9001/2008 international quality management system, the company has obtained the CE certification for export to Europe and America. Fir stall company has also got more than 20 Invention and utility model patents. It is equipped with a complete set of intelligent production equipment, inspection equipment, test center system and new

product R & D system to provide customers with professional and personalized products and the overall solution of power generation and power supply. Fir stall company has a passionate professional senior team from the industry benchmarking enterprise, and has introduced a visual real-time management and control management model, established a high standard quality management system and quality traceability system. From design calculation, design verification and experiment, material selection to process control, product terminal inspection and

so on. Exquisite winding design, perfect production process, reliable AVR and other high quality components, compact and easy to install product structure, high performance electrical system, IP23 international standard protection, 500 hours lasting durability experiment, etc., ensure good matching between the products and various mainstream power systems. Fir stall alternators have been fully recognized by the market, sold to more than ten provinces and cities in China and exported to more than 30 countries and regions in the world, such as Europe, Asia and America.

质量管理体系

QUALITY MANAGEMENT SYSTEM



公司严格按国际质量管理体系 ISO9001 及 IATF16949 管理要求，建立了完善的质量管理体系。公司配备了全套的零部件检测、过程质量检测、成品检测设备，并建立产品生产流程流转卡，确保产品质量的可追溯性和产品质量的完整性。

The company has established a perfect quality management system in strict accordance with the international quality management system ISO9001 and IATF16949 management requirements. The company is equipped with a complete set of parts inspection, process quality testing, finished product testing equipment, and set up a product production process circulation card to ensure the traceability of product quality and the integrity of product quality.



生产制造体系

PRODUCING
LINE

公司引进了专业的成套生产设备，制定了产品的生产工序流程，每一道工序都编制了相关的生产工艺及质量管控点并由专人负责。铨一电源生产的每一台产品，均具有独立的产品编号（产品身份证号码），每一位生产员工都有自己的编号，产品在生产过程中，每一道工序由操作员工对上一道工序进行质量验证，同时在本道生产工序完成后盖上自己的编号，确保了产品质量的可追溯。

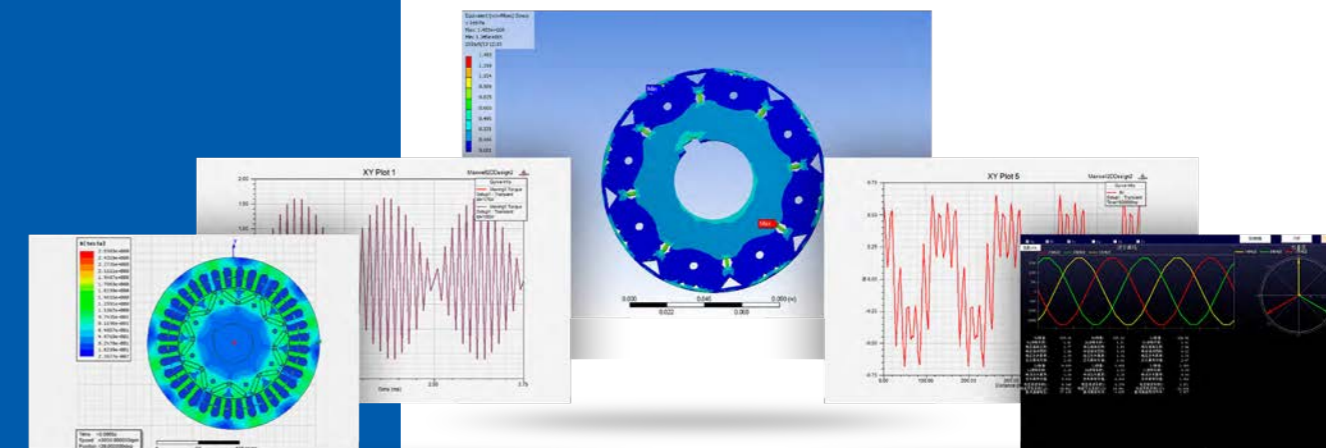
The company has a professional set of production equipment, set up the production process flow, each process has compiled the related production process and quality control point and is responsible for the special person. Every product produced by our company has an independent product number (product identity card number), each production employee has its own number. In

the process of production, each process is verified by the operating staff on the previous process, and at the same time the production procedure is completed on the back of its own number. It ensures the traceability of the quality of the product.



产品研发中心

R&D CENTER



我们的产品研发中心凭借对客户的深入了解和市场的严苛要求，不断对产品进行开发与创新改进。经过专门设计的发电机产品可以根据客户的特定应用要求进行改造，从而轻松应对多种多样的市场需求，目前我们已获发电机及配套相关的家专利 18 项。

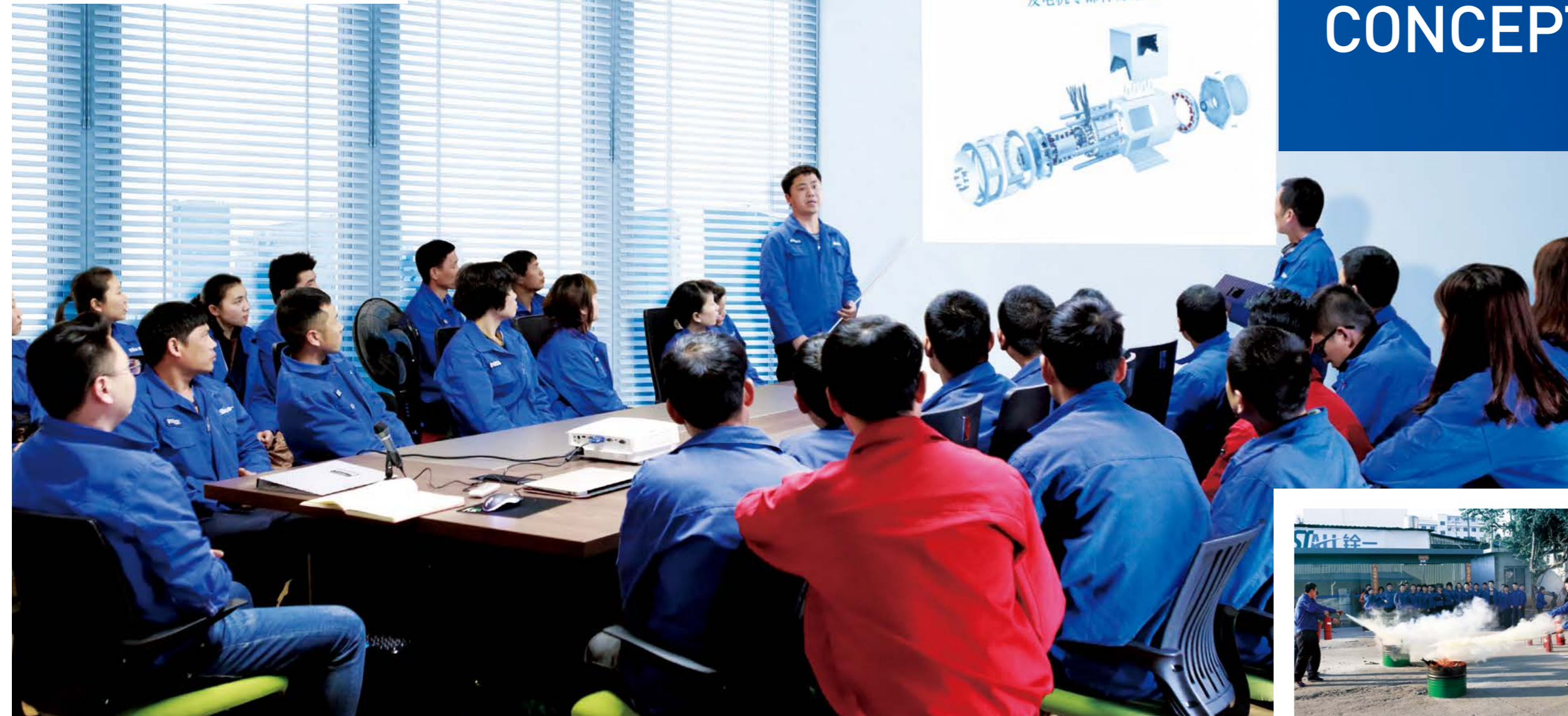
创新与合作是企业发展的基本理念，我们的行业专业知识以及与客户紧密的合作关系有助于我们激发出更多创新性的解决方案，让我们在世界各地的合作伙伴具备更强的竞争性、更高的效率和更优良的生产力。

Our product R&D center continuously develops, innovates and innovates products with in-depth understanding of customers and stringent requirements of the market. The specially designed generator products can be adapted to the specific application requirements of the customer, making it easy to respond to a wide range of market needs, At present, 18 patents have been obtained for alternators and supporting spare parts.

Innovation and cooperation are the basic concepts of enterprise development. Our industry expertise and close working relationship with our customers help us to inspire more innovative solutions and make our partners in the world more competitive. , higher efficiency and better productivity.

人才是企业最重要的资产。公司以人为核心，作为事业合伙人，帮助员工实现价值。培养了责任型、学习型、充满激情与热情的一流团队。

Talent is the most important asset of an enterprise. The company takes people as the core to help employees achieve value. We have developed a responsible, learning oriented, passionate and enthusiastic team.



人力资源理念
HUMAN RESOURCES CONCEPT



产品应用场合

PRODUCTS APPLICATION



无论何时何地铨一电源科技都能提供可靠的发电解决方案。无论是数据中心和医院的备用电源还是户外工程和发电站等应用的不间断电源，铨一电源科技在全球市场都是值得信赖的。铨一发电机具有出色的负载接受和瞬态响应特性，是在敏感环境和极端条件下使用的理想选择。

Firstall power technology provides a reliable power generation solution whenever and wherever. Whether it's a backup power supply for telecommunications and train stations or an uninterruptible power supply for applications such as data centers and

hospitals, Firstall power technology is trusted in the global market. With excellent load acceptance and transient response, Firstall alternators are best choice sensitive environments and extreme conditions.



建筑楼宇
BUILDINGS

紧急备用电源
Emergency Standby Power



医院 / 银行
HOSPITALS / BANK

紧急备用电源
Emergency Standby Power



铁路 / 船舶
RAILWAYS / SHIP

紧急备用电源
Emergency Standby Power



电信 / 数据中心
TELECOMMUNICATIONS
DATA CENTER

紧急备用电源
Emergency Standby Power



石油 / 矿山
OIL FIELDS / MINE

常用电源
Common power



户外工程
OUTDOOR PROJECT

常用电源
Common power



发电站
POWER PLANT

常用电源
Common power



军工领域
MILITARY FIELD

常用电源
Common power

QY

系列陆用无刷交流同步发电机 SERIES INDUSTRIAL BRUSHLESS AC SYNCHRONOUS ALTERNATOR

QY 系列三相交流无刷同步发电机是汇集了我公司多年制造和设计发电机的经验，结合国内外先进无刷发电机系列的设计和制造技术而自行开发的新一代发电机。该系列发电机体积小、质量轻、外观精致、可靠性高，电气性能达到国际先进水平。

QY 系列三相交流无刷同步发电机符合 IEC 国际电工委员会和 GB755 等相关标准，适用于与柴油机配套组成柴油发电机组或移动电站，广泛应用于工业、矿业、余热发电、建筑、运输、通讯、远洋作业等各种需要工频电源的场合。

QY series three phase brushless AC synchronous alternators collect sufficient experience of manufacture and design of my company for many years. It's a new generation brushless alternator developed by ourselves and it's combined with the advanced technology of manufacture and design from domestic and overseas. It's compact structure of small size, light weight, nice outlook, high reliability & electrical capability can reach to the international advanced level.

QY series three phase brushless AC synchronous alternators meet the standard of IEC and GB755. They are matched with diesel engines to make up of the diesel generator sets or movable electric station.

It can be widely used in industry, mining, cogeneration, building, transportation, corresponsce and ocean transportation etc.



主要性能参数

- 防滴漏结构 (IP22 防护等级)
- H 级绝缘
- 额定电压 400V
- 三相四线制
- 稳态电压调整率 $\leq \pm 1\%$
- 瞬态电压调整率 $\leq -18\% \sim +20\%$
- 电压波形畸变率 THD $\leq 3\%$
- 电话谐波因数 THF $\leq 2\%$
- 电话干扰因数 TIF ≤ 50
- 其它电压范围的发电机要根据用户需要制造。

使用环境

在下列环境下，发电机能够额定运行：

- 海拔不超过 1000 米。
- 冷却空气温度 258~313K (-15°C ~40°C)。
- 相对湿度不超过 90%。

特征

- 可选的永磁发电机和辅助绕组励磁系统能够提供承受短路电流的能力。
- 先进的自动电压调节器控制系统能够保证即使在最恶劣的条件下都能进行可靠的运行作业。
- 很容易与电网或其它发电机并联。标准的 2/3 节距绕组抑制了过多的中线电流。
- 经动平衡的转子，带有密封的滚珠轴承，具有单轴承和双轴承两种结构。
- 安装简单，维护保养方便；具有极易操作的接线柱、旋转整流器和联轴器螺栓。
- 多规格的过渡接套和单轴承盘片式联轴器。
- 符合所有主导的陆用标准。

MAIN TECHNICAL DATA

- Anti-drip structure protection class IP22
- Insulation class H
- Rated voltage 400V,
- Three phase four wire
- Stable voltage regulation rate $\leq \pm 1\%$
- Transient voltage regulation $\leq -18\% \sim +20\%$
- Voltage waveform distortion rate THD $\leq 3\%$
- Telephone harmonic factor THF $\leq 2\%$
- Telephone interference factor TIF ≤ 50
- Other standard of voltage can be available by your request.

USING ENVIRONMENT

The alternator can be used in below environment:

- Above sea level: not exceed 1000M,
- Ambient temperature 258~313K (-15°C ~40°C)
- Relative humidity: not exceed 90%

CHARACTERISTIC

- Selectable magneto alternator and assist exciting winding system can supply the ability to support the short circuit currency.
- Advanced automatic voltage regulator control system can make the machine to operate reliably under the worst environment.
- It's easy to parallel connection with other alternator and electric net work. Standard 2/3 pitch winding suppress overfull neutral current.
- Dynamically balanced rotor is with sealed needle bearing, have both structure of single bearing and double bearings.
- It's easy to install and maintain; it has very simple operation of termination, rotary rectifier & coupling nuts.
- Multi specification for adaptor and coupling disc for single bearing.
- It's suitable to all the standard of land used alternator.

电气特性 ELECTRICAL CHARACTER

励磁系统及短路能力

QY 系列发电机提供了多种励磁系统可供选择，以满足客户的不同需求：

- 自励系统，没有短路能力。
- 自励 + 永磁励磁系统，3 倍额定电流的短路电流维持能力达 10 秒。

EXCITING SYSTEM & ANTI-SHORT CIRCUIT ABILITY

QY series alternator can supply varied exciting system to meet different request of our customers:

- Exciting system, without anti-short circuit ability.
- Exciting + permanent magnet system, anti-short circuit current of triple rated current can keep 10 seconds.

自动电压调节器

QY 系列发电机安装了可靠和稳定的 AVR，不同型号的发电机标配的 AVR 不同，但所有 AVR 的稳态电压调整率 $\leq \pm 1\%$ ，并具有低频保护，外部电压调节等多种功能。200kW 及以上发电机的 AVR 具有并联功能。

AUTOMATIC VOLTAGE REGULATOR

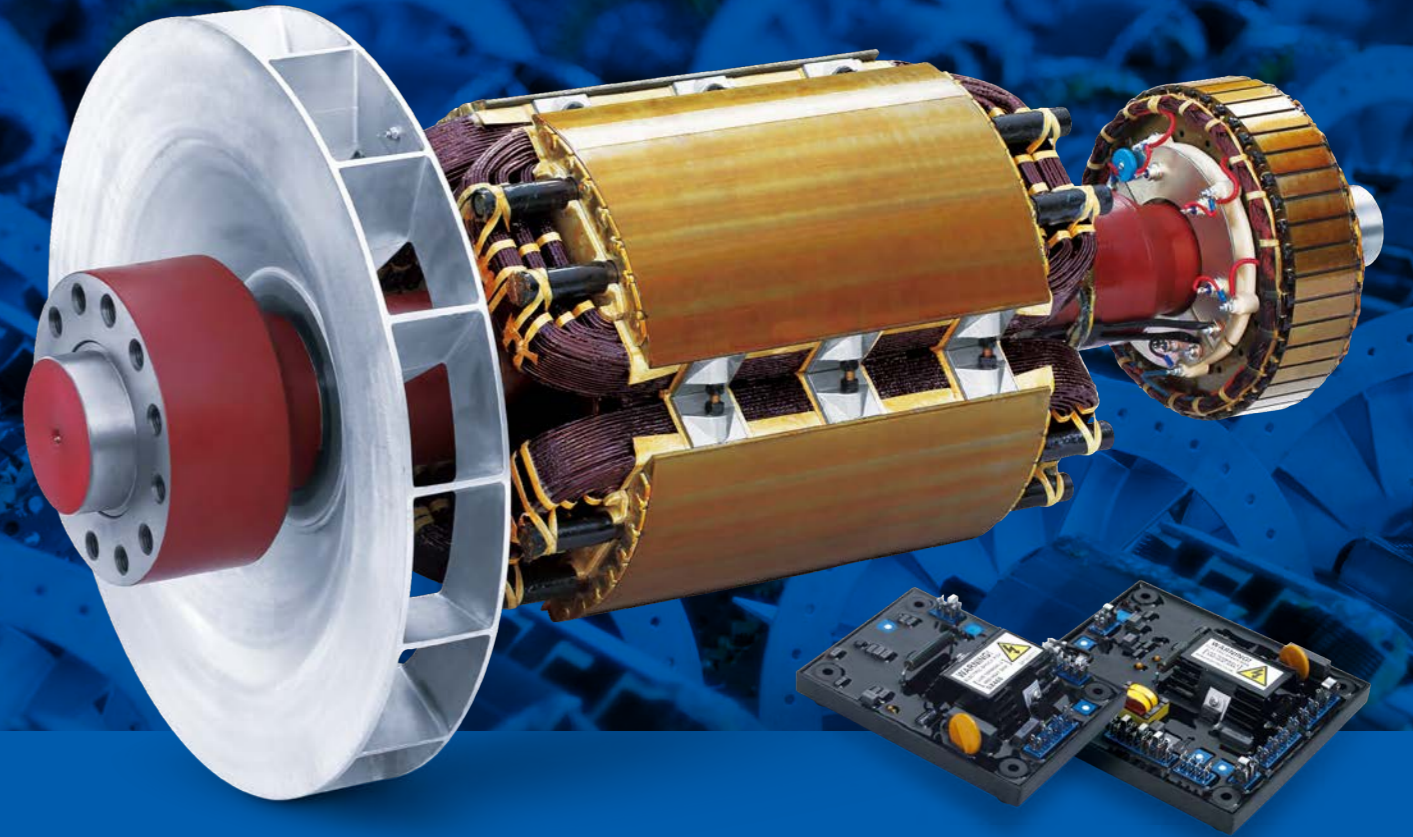
QY series alternator installed the reliable and stable AVR, different AVR match with different type of alternator. All the stable voltage regulation rate of AVR is $\leq \pm 1\%$, and it has the ability of low frequency protection and outside voltage regulation. The AVR for 200kw and aboved alternator has the function of the parallel connection.

电压调整率

电压调整率是指允许发动机转速在 4% 以内的波动下、功率因数在 0.8 滞后与 1 之间、从空载到满载的电压变化（包括冷态至热态的变化）。可用 AVR 上的一个微调来调整电压，所有 AVR 的稳态电压调整率 $\leq \pm 1\%$ 。

VOLTAGE REGULATION RATE

The voltage regulation refers to the change of voltage from no-load to full load (including from cold to hot state) with power factor changing from 0.8 to 1 and within 4% fluctuation of engine speed. It can be adjusted by adjustmeter on the automatic voltage regulator. Voltage stead-state regulation rate is $\leq \pm 1\%$.



瞬态性能

发电机在功率因数 0.8 的额定负载时其瞬时电压降小于 18%。20% 的电压跌落其恢复时间小于 0.7 秒。

TRANSIENT PERFORMANCE

The transient voltage is less than 18% when the power factor is 0.8 for rated load. 20% voltage reduction can be recovered within 0.7 seconds.

无线电干扰

无刷装置和高质量的 AVR 确保无线电传送时干扰很小。如果需要的话，可另外提供 RFI 抑制装置。

WIRELESS INTERFERENCE

The brushless parts and high quality AVR can ensure interference to be very small in wireless transmitting. RFI parts is available if requested.

绕组和波形

- 所有的发电机是 2/3 节距绕制，能有效地消除电压的三次谐波（第 3、第 9、第 15……），是不间断供电等非线性负载的最佳设计。与电网并联时，2/3 节距结构抑制了有时较大的线圈节距会产生的过大的中线电流。
- 所有发电机的定子采用高导磁性能冷轧硅钢板叠压而成，转子上一个完全连续的阻尼绕组减少了并联时的振荡。这种新型绕组，且极和齿都经过仔细精选的绕组抑制了输出电压的波形畸变。
- 在空载或额定线性负载和平衡负载下，相线与相线间的电压波形畸变率（THC 或 THD）小于 4%。
- 电话谐波因数 THF（按照 IEC 所定义）小于 2%。
- 电话干扰因数 TIF（如 NEMA MG1-22 所定义）小于 50。

WINDINGS AND WAVEFORMS

- 2/3pitch windings design adopted in all the alternators that can effectively eliminated the third harmonic wave(3th,9th,15th...)of voltage,which is the best design of UPS for nonlinear load.connected with the power supply network in parallel, the stricture can prevent the high current in the middle line.
- All the stator of alternator is made from overlying theCold-rolled silicon steel sheet with high magnetic conductivity. The complete continuously damped windings of rator reduce the vibration when parallel connection. The new type winding, by meticulously choosing the Pole and tooth, the widing can inhibit the Waveform distortion of output voltage
- The voltage waveform distortion rate (THC or THD) between phase line and phase line is less than 4% under no load or rated linearloaded and balanced loaded.
- Telephone harmonic factor THF (defined by IEC) is less than 2%
- Telephone interference factorTIF (defined by NEMA MG1-22) is less than 50.

机械特性 MECHANICAL FEATURES

结构及安装方式

- QY 系列发电机都具有单轴承和双轴承两种结构：
- QY 系列单轴承结构的过渡接套可选 SAE#00、0、1/2、1、2、3、4、5；盘片式联轴器可选 SAE#6.5、7.5、8、10、11.5、14、16、18、21。
 - QY 系列双支点结构的过渡接套可选 SAE#00、0、1/2、1、2、3、4、5。

防护

QY 系列发电机的标准防护为 IP22 (NEMA1)，作为任选，可提供 IP23 的防护等级，但额定功率下降 5%。船用发电机的标准型为 IP23。作为任选件，可在发电机上装备空气过滤器，但额定值下降 5%。

轴承

所有发电机均采用长效密封轴承。

转子平衡

所有发电机转子都严格按照 ISO 1940 和 NFC 51-11 的标准要求进行动平衡校验。双支点发电机带一个半键校动平衡。

转向

所有发电机都能双向转动运行。（标准出厂状态顺时针转动时相序为：U、V、W）

超速

最大的超速为 2250r/min(60Hz 额定转速的 1.25 倍)

绝缘和保护

所有发电机的绕组都是 H 级绝缘，标准绕组的防护能接受高达 95% 的相对湿度并能够适用于室内船用。对于特别严酷的环境需要采用特殊绝缘处理。

STRUCTURE AND INSTALLATION

single bearing and double bearing is available for all QY series alternator.

For single bearing:

- The adaptor SAE#00、0、1/2、1、2、3、4、5
- coupling disc SAE#6.5、7.5、8、10、11.5、14、16、18、21

For double bearing:

- The adaptor SAE#00、0、1/2、1、2、3、4、5

PROTECTION

The QY series alternator standard protection is IP22, IP23 is for your choice but the rated output will come down 5%, the marine brushless standard is IP23. air filter can be equipped with alternator but the rated output come down 5%.

BEARING

High quality sealed bearing is used for all alternator.

ROTOR BALANCE

All alternators' rotors are dynamically balanced according to the standard of ISO 1940 and NFC 51-11. The two bearing alternators are balanced with half key.

ROTATION

All alternator can run by both -way rotation (Phase sequence of clockwise rotation standard is :U、V、W)

OVERSPEED

Max overspeed is 2250r/min(1.25 times of 60HZ rated speed)

INSULATION AND PROTECTION

The insulation class standard is H for all alternators. Standard winding can be used in condition of 95% relative humidity and suitable for inside of marine. Special insulation can be available for harsh environment.



接线端子和接线盒

标准的发电机是三相，并可对引至接线端子的 12 个接线头重接，接线端子安装在发电机非驱动端的出线板上。在薄钢板制成的出线盒内有 AVR，具有足够空间让用户布线。为易于操作，面板为拆卸式面板。

可供选择的配置：

- 过渡联接套及可互换的盘式联轴器
- 空气进、出风口过滤器 (5% 功率降)
- 适用于恶劣环境的特殊定子防护
- 特殊表面漆
- 轴承温度保护
- 定子绕组温度保护
- 空间加热器
- 电压远程调整
- 同其他发电机并联的电流互感器
- 永磁机 (PMG)

产品型号定义

PRODUCT TYPE DEFINITION

QY I 系列发电机
QY I SERIES ALTERNATOR

Q	Y	I	2	7	4	E	1
Q	Y	I	3	1	4	C	2

发电机型号：QY
Type of alternator: QY

I 代产品
Generation I

机座号
Frame No.

级数：4 极
Pole Number: 4 pole

铁心长度
Stator Length

轴承数：1 为单轴承，2 为双轴承
Bearing: single bearing 1, double bearing 2.

WIRING TERMINAL AND TERMINAL BOX

Standard alternator with three phase and 12 leads can be re-connected in terminal box. The terminals are mounted on the terminal board on the no-drive end. There is AVR and in the terminal box and enough space for wiring by customer. There is also removable panels for easy operation.

OPTIONAL EQUIPMENT:

- Adaptor or exchanged coupling
- Air filter for inlet and outlet.
- Special stator protection used for harsh environment.
- Special surface painting
- Bearing temperature protection
- Stator winding temperature protection.
- Space heater
- Voltage remote regulation
- Current sensor for parallel connection with other alternators.
- Permanent-magnet generator

QY II 系列发电机
QY II SERIES ALTERNATOR

Q	Y	II	3	E	1
Q	Y	II	5	C	2

发电机型号：QY
Type of alternator: QY

II 代产品
Generation II

机座号
Frame No.

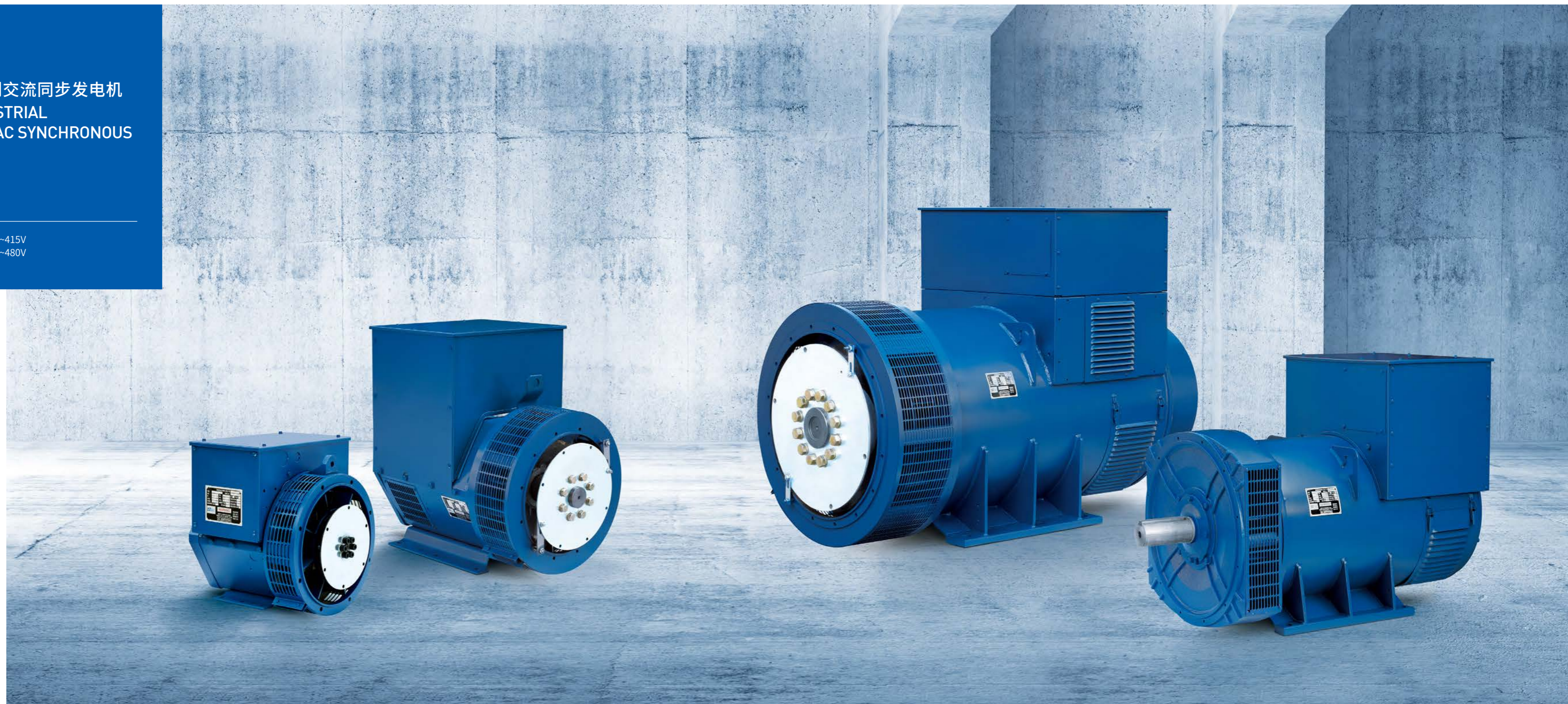
铁心长度
Stator Length

轴承数：1 为单轴承，2 为双轴承
Bearing: single bearing 1, double bearing 2.

QY I

系列陆用无刷交流同步发电机
SERIES INDUSTRIAL
BRUSHLESS AC SYNCHRONOUS
ALTERNATOR

- 1500rpm / 50Hz / 380~415V
- 1800rpm / 60Hz / 460~480V



QY I (50Hz)

系列产品选型表 SERIES PRODUCT SELECTION TABLE

1500rpm / 50Hz / 380~415V

型号 Type	额定功率 Rated Power						重量 Weight	
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		单轴承 Single-Bearing	双轴承 Double-Bearing
	KW	KVA	KW	KVA	KW	KVA	kg	kg
QY I 164A	6.5	8.1	7.0	8.7	7.2	9.0	86	90
QY I 164B	8.8	11.0	9.5	11.9	9.8	12.2	93	100
QY I 164C	10.8	13.5	11.7	14.6	12.0	15.0	98	108
QY I 164D	12.8	16	13.8	17.3	14.2	17.8	108	113
QY I 184ES	16	20	17.3	21.6	17.8	22.2	117	120
QY I 184E	18	23	19.4	24.3	20.0	25.0	133	136
QY I 184FS	20	25	21.6	27.0	22.2	27.8	143	151
QY I 184F	22	28	23.8	29.7	24.4	30.5	151	155
QY I 184G	25	31	27.0	33.8	27.8	34.7	173	178
QY I 184H	30	38	32.4	40.5	33.3	41.6	188	193
QY I 184J	32	40	34.6	43.2	35.5	44.4	199	204
QY I 224C	34	43	36.7	45.9	37.7	47.2	233	229
QY I 224D	40	50	43.2	54.0	44.4	55.5	249	242
QY I 224E	48	60	51.8	64.8	53.3	66.6	277	266
QY I 224F	58	73	62.6	78.3	64.4	80.5	313	305
QY I 224G	68	85	73.4	91.8	75.5	94.4	355	342
QY I 274CS	75	94	81.0	101.3	83.3	104.1	360	355
QY I 274C	80	100	86.4	108.0	88.8	111.0	371	367
QY I 274DS	90	113	97.2	121.5	99.9	124.9	402	395
QY I 274D	96	120	103.7	129.6	106.6	133.2	423	409
QY I 274ES	100	125	108.0	135.0	111.0	138.8	430	418
QY I 274E	112	140	121.0	151.2	124.3	155.4	460	447
QY I 274FS	120	150	129.6	162.0	133.2	166.5	483	470
QY I 274F	128	160	138.2	172.8	142.1	177.6	513	499
QY I 274G	144	180	155.5	194.4	159.8	199.8	563	558
QY I 274H	160	200	172.8	216.0	177.6	222.0	615	605
QY I 274J	180	225	194.4	243.0	199.8	249.8	623	612
QY I 274K	200	250	216.0	270.0	222.0	277.5	688	678

1500rpm / 50Hz / 380~415V

型号 Type	额定功率 Rated Power						重量 Weight	
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		单轴承 Single-Bearing	双轴承 Double-Bearing
	KW	KVA	KW	KVA	KW	KVA	kg	kg
QY I 314C	200	250	216.0	270.0	222.0	277.5	800	789
QY I 314DS	220	275	237.6	297.0	244.2	305.3	830	820
QY I 314D	240	300	259.2	324.0	266.4	333.0	878	868
QY I 314ES	260	325	280.8	351.0	288.6	360.8	920	910
QY I 314E	280	350	302.4	378.0	310.8	388.5	970	956
QY I 314FS	300	375	324.0	405.0	333.0	416.3	1088	1068
QY I 314F	320	400	345.6	432.0	355.2	444.0	1103	1085
QY I 354C	360	450	388.8	486.0	399.6	499.5	1213	1202
QY I 354D	400	500	432.0	540.0	444.0	555.0	1363	1340
QY I 354ES	450	563	486.0	607.5	499.5	624.4	1410	1380
QY I 354E	480	600	518.4	648.0	532.8	666.0	1459	1440
QY I 354FS	500	625	540.0	675.0	555.0	693.8	1580	1560
QY I 354F	544	680	587.5	734.4	603.8	754.8	1632	1612
QY I 404B	600	750	648.0	810.0	666.0	832.5	1866	1846
QY I 404C	640	800	691.2	864.0	710.4	888.0	1950	1930
QY I 404D	728	910	786.2	982.8	808.1	1010.1	2002	1985
QY I 404E	800	1000	864.0	1080.0	888.0	1110.0	2142	2125
QY I 404F	904	1130	976.3	1220.4	1003.4	1254.3	2375	2360
QY I 404G	1000	1250	1080.0	1350.0	1110.0	1387.5	2721	2700
QY I 454A	980	1225	1058.4	1323.0	1087.8	1359.8	2780	2730
QY I 454B	1088	1360	1175.0	1468.8	1207.7	1509.6	2790	2740
QY I 454C	1204	1505	1300.3	1625.4	1336.4	1670.6	3025	2975
QY I 454D	1292	1615	1395.4	1744.2	1434.1	1792.7	3320	3270
QY I 454E	1476	1845	1594.1	1992.6	1638.4	2048.0	3585	3510
QY I 454F	1616	2020	1745.3	2181.6	1793.8	2242.2	3850	3800
QY I 454G	1708	2135	1844.6	2305.8	1895.9	2369.9	4090	4040
QY I 454H	1940	2425	2095.2	2619.0	2153.4	2691.8	4580	4530

QY I (60Hz)

系列产品选型表 SERIES PRODUCT SELECTION TABLE

1800rpm / 60Hz / 460~480V

型号 Type	额定功率 Rated Power						重量 Weight	
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		单轴承 Single-Bearing	双轴承 Double-Bearing
	KW	KVA	KW	KVA	KW	KVA	kg	kg
QY I 164A	8.2	10.3	8.7	10.9	9.0	11.3	86	90
QY I 164B	11	13.8	11.7	14.6	12.1	15.1	93	100
QY I 164C	13.5	16.9	14.3	17.9	14.9	18.6	98	108
QY I 164D	16	20	17.0	21.2	17.6	22.0	108	113
QY I 184ES	22	28	23.3	29.2	24.2	30.3	117	120
QY I 184E	24	30	25.4	31.8	26.4	33.0	133	136
QY I 184FS	25	31	26.5	33.1	27.5	34.4	143	151
QY I 184F	28	35	29.7	37.1	30.8	38.5	151	155
QY I 184G	30	38	31.8	39.8	33.0	41.3	173	178
QY I 184H	37.5	47	39.8	49.7	41.3	51.6	188	193
QY I 184J	40	50	42.4	53.0	44.0	55.0	199	204
QY I 224C	44	55	46.6	58.3	48.4	60.5	233	229
QY I 224D	52	65	55.1	68.9	57.2	71.5	249	242
QY I 224E	60	75	63.6	79.5	66.0	82.5	277	266
QY I 224F	75	94	79.5	99.4	82.5	103.1	313	305
QY I 224G	83	104	88.0	110.0	91.3	114.1	355	342
QY I 274CS	92	115	97.5	121.9	101.2	126.5	360	355
QY I 274C	100	125	106.0	132.5	110.0	137.5	371	367
QY I 274DS	105	131	111.3	139.1	115.5	144.4	402	395
QY I 274D	117	146	124.0	155.0	128.7	160.9	423	409
QY I 274ES	120	150	127.2	159.0	132.0	165.0	430	418
QY I 274E	143	179	151.6	189.5	157.3	196.6	460	447
QY I 274FS	140	175	148.4	185.5	154.0	192.5	483	470
QY I 274F	165	206	174.9	218.6	181.5	226.9	513	499
QY I 274G	185	231	196.1	245.1	203.5	254.4	563	558
QY I 274H	204	255	216.2	270.3	224.4	280.5	615	605
QY I 274J	240	300	254.4	318.0	264.0	330.0	623	612
QY I 274K	250	313	265.0	331.3	275.0	343.8	688	678

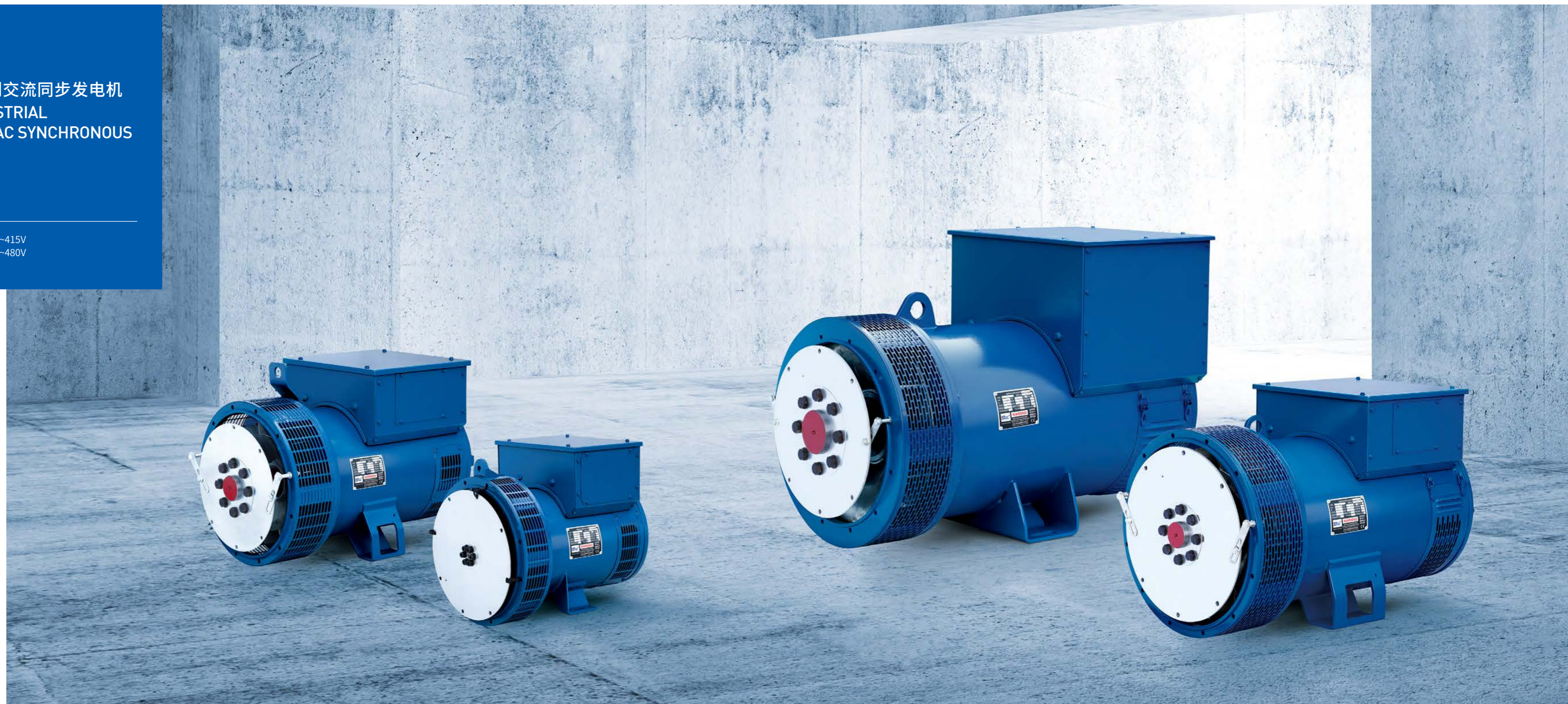
1800rpm / 60Hz / 460~480V

型号 Type	额定功率 Rated Power						重量 Weight	
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		单轴承 Single-Bearing	双轴承 Double-Bearing
	KW	KVA	KW	KVA	KW	KVA	kg	kg
QY I 314C	250	313	265.0	331.3	275.0	343.8	800	789
QY I 314DS	264	330	279.8	349.8	290.4	363.0	830	820
QY I 314D	300	375	318.0	397.5	330.0	412.5	878	868
QY I 314ES	312	390	330.7	413.4	343.2	429.0	920	910
QY I 314E	335	419	355.1	443.9	368.5	460.6	970	956
QY I 314FS	360	450	381.6	477.0	396.0	495.0	1088	1068
QY I 314F	380	475	402.8	503.5	418.0	522.5	1103	1085
QY I 354C	435	544	461.1	576.4	478.5	598.1	1213	1202
QY I 354D	515	644	545.9	682.4	566.5	708.1	1363	1340
QY I 354ES	540	675	572.4	715.5	594.0	742.5	1410	1380
QY I 354E	600	750	636.0	795.0	660.0	825.0	1459	1440
QY I 354FS	610	763	646.6	808.3	671.0	838.8	1580	1560
QY I 354F	660	825	699.6	874.5	726.0	907.5	1632	1612
QY I 404B	750	938	795.0	993.8	825.0	1031.3	1866	1846
QY I 404C	800	1000	848.0	1060.0	880.0	1100.0	1950	1930
QY I 404D	960	1200	1017.6	1272.0	1056.0	1320.0	2002	1985
QY I 404E	1000	1250	1060.0	1325.0	1100.0	1375.0	2142	2125
QY I 404F	1112	1390	1178.7	1473.4	1223.2	1529.0	2375	2360
QY I 404G	1210	1513	1282.6	1603.3	1331.0	1663.8	2721	2700
QY I 454A	1220	1525	1293.2	1616.5	1342.0	1677.5	2780	2730
QY I 454B	1352	1690	1433.1	1791.4	1487.2	1859.0	2790	2740
QY I 454C	1512	1890	1602.7	2003.4	1663.2	2079.0	3025	2975
QY I 454D	1613	2016	1709.8	2137.2	1774.3	2217.9	3320	3270
QY I 454E	1840	2300	1950.4	2438.0	2024.0	2530.0	3585	3510
QY I 454F	2080	2600	2204.8	2756.0	2288.0	2860.0	3850	3800
QY I 454G	2200	2750	2332.0	2915.0	2420.0	3025.0	4090	4040
QY I 454H	2330	2913	2469.8	3087.3	2563.0	3203.8	4580	4530

QY II

系列陆用无刷交流同步发电机
SERIES INDUSTRIAL
BRUSHLESS AC SYNCHRONOUS
ALTERNATOR

- 1500rpm / 50Hz / 380~415V
- 1800rpm / 60Hz / 460~480V



QY II (50Hz)

系列产品选型表 SERIES PRODUCT SELECTION TABLE

1500rpm / 50Hz / 380~415V

型号 Type	额定功率 Rated Power						重量 Weight kg
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		
	KW	KVA	KW	KVA	KW	KVA	
QY II 1A	8	10.0	8.6	10.8	8.8	11.0	92
QY II 1B	10	12.5	10.8	13.5	11.0	13.8	97
QY II 1C	12	15.0	13.0	16.2	13.2	16.5	108
QY II 1D	16	20.0	17.3	21.6	17.6	22.1	117
QY II 1ES	18	22.5	19.4	24.3	19.9	24.8	126
QY II 1E	20	25.0	21.6	27.0	22.1	27.6	135
QY II 1FS	22	27.5	23.8	29.7	24.3	30.3	143
QY II 1F	25	31.3	27.0	33.8	27.6	34.5	153
QY II 1G	30	37.5	32.4	40.5	33.1	41.4	175
QY II 1H	32	40.0	34.6	43.2	35.3	44.1	183
QY II 2CS	34	42.5	36.7	45.9	37.5	46.9	201
QY II 2C	40	50.0	43.2	54.0	44.1	55.2	212
QY II 2D	45	56.3	48.6	60.8	49.6	62.0	228
QY II 2E	48	60.0	51.8	64.8	52.9	66.2	233
QY II 2FS	58	72.5	62.6	78.3	64.0	80.0	271
QY II 2F	64	80.0	69.1	86.4	70.6	88.2	286
QY II 2GS	68	85.0	73.4	91.8	75.0	93.8	311
QY II 2G	75	93.8	81.0	101.3	82.7	103.4	326
QY II 3CS	80	100.0	86.4	108.0	88.2	110.3	340
QY II 3C	94	117.5	101.5	126.9	103.7	129.6	352
QY II 3DS	100	125	108.0	135.0	110.3	137.9	378
QY II 3D	112	140	121.0	151.2	123.5	154.4	398
QY II 3E	120	150	129.6	162.0	132.4	165.5	431
QY II 3FS	128	160	138.2	172.8	141.2	176.5	446
QY II 3F	144	180	155.5	194.4	158.8	198.5	498
QY II 3G	160	200	172.8	216.0	176.5	220.6	553
QY II 3H	180	225	194.4	243.0	198.5	248.2	601
QY II 3J	200	250	216.0	270.0	220.6	275.8	612

1500rpm / 50Hz / 380~415V

型号 Type	额定功率 Rated Power						重量 Weight kg
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		
	KW	KVA	KW	KVA	KW	KVA	
QY II 4CS	200	250	216.0	270.0	220.6	275.8	781
QY II 4C	220	275	237.6	297.0	242.7	303.3	795
QY II 4DS	240	300	259.2	324.0	264.7	330.9	810
QY II 4D	260	325	280.8	351.0	286.8	358.5	835
QY II 4ES	280	350	302.4	378.0	308.8	386.1	881
QY II 4E	300	375	324.0	405.0	330.9	413.6	925
QY II 4F	320	400	345.6	432.0	353.0	441.2	975
QY II 5CS	360	450	388.8	486.0	397.1	496.4	1115
QY II 5C	400	500	432.0	540.0	441.2	551.5	1210
QY II 5DS	450	563	486.4	608.0	496.8	621.0	1290
QY II 5D	480	600	518.4	648.0	529.4	661.8	1360
QY II 5ES	500	625	540.0	675.0	551.5	689.4	1408
QY II 5E	532	665	574.6	718.2	586.8	733.5	1455
QY II 5F	560	700	604.8	756.0	617.7	772.1	1625
QY II 6B	600	750	648.0	810.0	661.8	827.3	1810
QY II 6C	640	800	691.2	864.0	705.9	882.4	1950
QY II 6D	728	910	786.2	982.8	803.0	1003.7	2005
QY II 6E	800	1000	864.0	1080.0	882.4	1103.0	2135
QY II 6F	904	1130	976.3	1220.4	997.1	1246.4	2355
QY II 6G	1000	1250	1080.0	1350.0	1103.0	1378.8	2695
QY II 7A	1120	1400	1209.6	1512.0	1235.4	1544.2	2710
QY II 7B	1240	1550	1339.2	1674.0	1367.7	1709.7	2795
QY II 7C	1320	1650	1425.6	1782.0	1456.0	1820.0	3030
QY II 7D	1520	1900	1641.6	2052.0	1676.6	2095.7	3330
QY II 7E	1664	2080	1797.1	2246.4	1835.4	2294.2	3590
QY II 7F	1800	2250	1944.0	2430.0	1985.4	2481.8	3855
QY II 7G	2000	2500	2160.0	2700.0	2206.0	2757.5	4100

QY II (60Hz)

系列产品选型表 SERIES PRODUCT SELECTION TABLE

1800rpm / 60Hz / 460~480V

型号 Type	额定功率 Rated Power						重量 Weight kg
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		
	KW	KVA	KW	KVA	KW	KVA	
QY II 1A	9.5	11.9	10.3	12.8	10.5	13.1	92
QY II 1B	12	15.0	13.0	16.2	13.2	16.5	97
QY II 1C	14	17.5	15.1	18.9	15.4	19.3	108
QY II 1D	19	23.8	20.5	25.7	21.0	26.2	117
QY II 1ES	21.5	26.9	23.2	29.0	23.7	29.6	126
QY II 1E	24	30.0	25.9	32.4	26.5	33.1	135
QY II 1FS	26	32.5	28.1	35.1	28.7	35.8	143
QY II 1F	30	37.5	32.4	40.5	33.1	41.4	153
QY II 1G	36	45.0	38.9	48.6	39.7	49.6	175
QY II 1H	38	47.5	41.0	51.3	41.9	52.4	183
QY II 2CS	40	50.0	43.2	54.0	44.1	55.2	201
QY II 2C	48	60.0	51.8	64.8	52.9	66.2	212
QY II 2D	54	67.5	58.3	72.9	59.6	74.5	228
QY II 2E	58	72.5	62.6	78.3	64.0	80.0	233
QY II 2FS	70	87.5	75.6	94.5	77.2	96.5	271
QY II 2F	76	95.0	82.1	102.6	83.8	104.8	286
QY II 2GS	81	101.3	87.5	109.4	89.3	111.7	311
QY II 2G	90	112.5	97.2	121.5	99.3	124.1	326
QY II 3CS	96	120.0	103.7	129.6	105.9	132.4	340
QY II 3C	112	140.0	121.0	151.2	123.5	154.4	352
QY II 3DS	120	150	129.6	162.0	132.4	165.5	378
QY II 3D	135	169	145.8	182.3	148.9	186.1	398
QY II 3E	145	181	156.6	195.8	159.9	199.9	431
QY II 3FS	150	188	162.0	202.5	165.5	206.8	446
QY II 3F	170	213	183.6	229.5	187.5	234.4	498
QY II 3G	190	238	205.2	256.5	209.6	262.0	553
QY II 3H	215	269	232.2	290.3	237.1	296.4	601
QY II 3J	240	300	259.2	324.0	264.7	330.9	612

1500rpm / 50Hz / 380~415V

型号 Type	额定功率 Rated Power						重量 Weight kg
	持续 Continued 40°C 125K		备用 Standby 40°C 150K		备用 Standby 27°C 163K		
	KW	KVA	KW	KVA	KW	KVA	
QY II 4CS	240	300	259.2	324.0	264.7	330.9	781
QY II 4C	264	330	285.1	356.4	291.2	364.0	795
QY II 4DS	288	360	311.0	388.8	317.7	397.1	810
QY II 4D	312	390	337.0	421.2	344.1	430.2	835
QY II 4ES	335	419	361.8	452.3	369.5	461.9	881
QY II 4E	360	450	388.8	486.0	397.1	496.4	925
QY II 4F	385	481	415.8	519.8	424.7	530.8	975
QY II 5CS	430	538	464.4	580.5	474.3	592.9	1115
QY II 5C	480	600	518.4	648.0	529.4	661.8	1210
QY II 5DS	540	675	583.2	729.0	595.6	744.5	1290
QY II 5D	575	719	621.0	776.3	634.2	792.8	1360
QY II 5ES	600	750	648.0	810.0	661.8	827.3	1408
QY II 5E	640	800	691.2	864.0	705.9	882.4	1455
QY II 5F	670	838	723.6	904.5	739.0	923.8	1625
QY II 6B	720	900	777.6	972.0	794.2	992.7	1810
QY II 6C	765	956	826.2	1032.8	843.8	1054.7	1950
QY II 6D	870	1088	939.6	1174.5	959.6	1199.5	2005
QY II 6E	960	1200	1036.8	1296.0	1058.9	1323.6	2135
QY II 6F	1085	1356	1171.8	1464.8	1196.8	1495.9	2355
QY II 6G	1200	1500	1296.0	1620.0	1323.6	1654.5	2695
QY II 7A	1350	1688	1458.0	1822.5	1489.1	1861.3	2710
QY II 7B	1488	1860	1607.0	2008.8	1641.3	2051.6	2795
QY II 7C	1585	1981	1711.8	2139.8	1748.3	2185.3	3030
QY II 7D	1825	2281	1971.0	2463.8	2013.0	2516.2	3330
QY II 7E	2000	2500	2160.0	2700.0	2206.0	2757.5	3590
QY II 7F	2160	2700	2332.8	2916.0	2382.5	2978.1	3855
QY II 7G	2400	3000	2592.0	3240.0	2647.2	3309.0	4100