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QEEHUA®

RECTIFIER DC POWER SUPPLY

PROFESSIONAL SOLUTION PROVIDER FOR INDUSTRIAL POWER

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GUANGDONG QEEHUA INDUSTRY EQUIPMENT CO., LTD.
Address: No.8, East Chenwu Road, Houjie Town, Dongguan City, Guangdong Province, China.

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SUZHOU QEEHUA PUMP INDUSTRY CO., LTD.
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GUANGDONG QEEHUA INDUSTRY EQUIPMENT CO., LTD.





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40+

Countries and Regions Covered

10,000+

Number of Customers

90+

Number of Patents

100+

Number of Employees

30+

Number of Self-Developed Products

STABLE

廣東企華工業設備有限公司
Guangdong Qeehua Industry Equipment Co., Ltd.

EFFICIENT

Guangdong Qeehua Industry Equipment Co., Ltd.

HIGH CURRENT

ULTRA-LOW RIPPLE

企華泵業

讓世界愛上中國泵
Let's make the world love Chinese Pump

企華因你而美麗

耐酸化工泵研發專家
Corrosion-resistant chemical pump

ABOUT US

GUANGDONG QEEHUA INDUSTRY EQUIPMENT CO., LTD. is a leading manufacturer and national high-tech enterprise dedicated to the R&D, design, and manufacturing of corrosion-resistant chemical pumps, filters, and rectifiers (DC power supplies).

QEEHUA's rectifier product line includes high-frequency switching power supplies, synchronous rectifier power supplies, pulse power supplies and specialty industrial power supplies, which are widely used in such fields as electrolytic copper foil production, new energy storage, PCB, electroplating, electrolysis, electrochemistry, smelting, etc.

QEEHUA focuses on technological innovation and energy-saving development. It has provided new energy-saving products and systematic energy-saving solutions for multiple industries, winning wide recognition.

QEEHUA also provides a one-stop solution of "rectifiers + chemical pumps + filters" to help customers cut comprehensive costs.



SGS

CE

HISTORY

OUR HISTORY

2010

First-Generation Thyristor Rectifier (One-to-Many)

50Hz Industrial Frequency Transformer
Large Volume, High Loss, Low Power Factor



2012

Second-Generation High-Frequency Switching Rectifier

Integrated Design
Schottky Rectification

Power Factor Significantly Higher Than Thyristor Type



Third-Generation Synchronous Rectifier

MOSFET Rectification

Efficiency: 88-90%

Modular Design

Online Hot Maintenance, Significantly Reduced Downtime



2014

2018



Multi-Unit Modular Parallel Rectifier

Full Soft-Switching Technology, Automatic Compensation

Patented Cabinet Structure and Rectifier Module Design

Adopts MOSFET Synchronous Rectification

Efficiency Approaching 95%,

Optional APFC Configuration to Solve Harmonic Issues



COOPERATION BRAND



PSA
Positive System Alliance

景碩科技



木林森

美畅
METRON



依利安達
Elec & Elek

三孚新科
SFC



CATL
宁德时代

Shirai
白井電子

MULTEK



東京工業大學
Tokyo Institute of Technology



青島科



KINWONG
晶旺



深南



LONGi 隆基

MARKETING AREAS



Our market covers over 40 countries

OUR CERTIFICATES



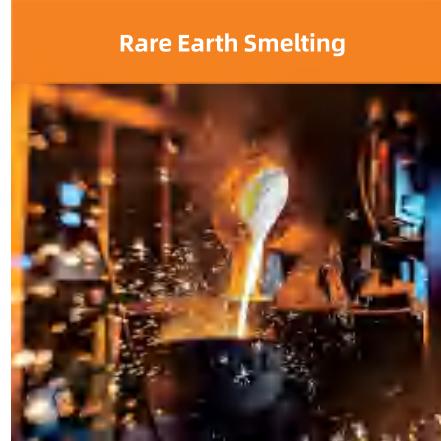
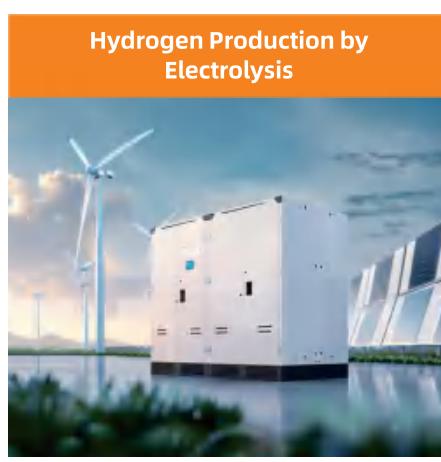
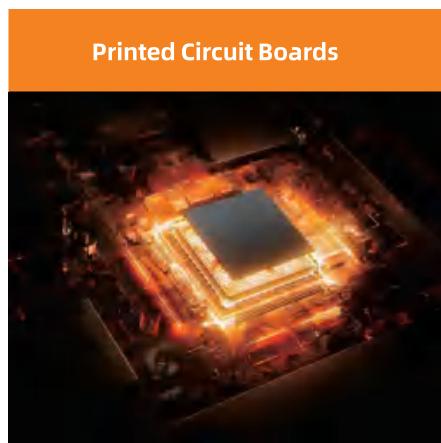
Through nearly ten years' efforts, Qeehua Pump has won honors evaluated by many platforms and institutions, obtained the copyright registration certificate of the domestic copyright administration, government procurement access, domestic manufacturing network certification suppliers and other qualifications, and won the domestic recognition of high-tech companies.



The recognition of professional institutions explains the continuous investment of Qeehua in products and technologies. After ten years of hard work, Qeehua Pump is accelerating to stand out in the subdivision of acid and alkali resistant chemical pumps.



APPLICATION FIELD



Main applications of the company's products

● New Energy

● Electrochemistry

● Surface Treatment

● Smelting

● Electrolysis

● Communication

PROJECTS CASE

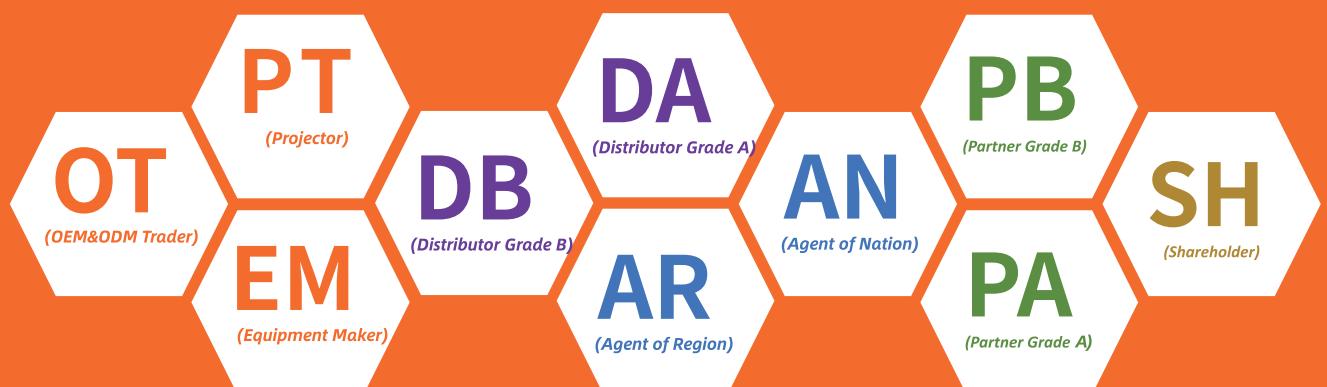


PROJECTS CASE



PARTNERSHIP MODELS

Partnership models-Ten different choices



Hope to find win-win and long-term cooperation way with you

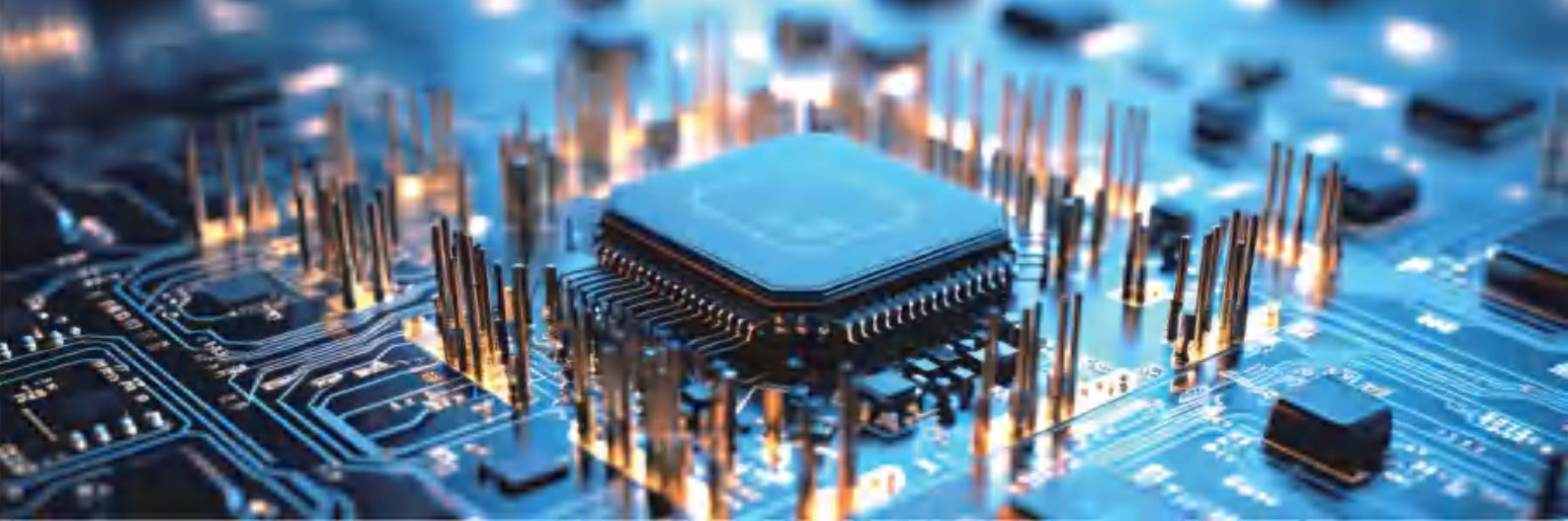
PRODUCT CONTENTS

Smart Rectifier Solutions for Modern Industry.



Model Naming Rules

XX	X	X	-	0	*	0000A/00V	-	0	X	-	X	X	-	XXX
①	②	③		④		⑤		⑥	⑦		⑧	⑨		⑩
①	Category		SY - synchronization					SC - schottky						
②	Frequency		H - high Frequency											
③	Output		S - single					M - Dual(multiple) Outputs						
④	Output Group		1, 2, 4											
⑤	Power		Current A/Voltage V											
⑥	Transformer Banks		1, 2, 3											
⑦	Transformers		P-ring Type					U - skeleton						
⑧	Cooling		W - Water Cooled					A - air- cooled						
⑨	Chassis		A, B, C											
⑩	Special Instructions		Industry, Type											



QE-SYHS-W Series Water Cooled Synchronous Rectifier



QE - SYHM - W Series Dual Water Cooled Synchronous Rectifier



QE - SYHM - A Series Air Cooled Modular Rectifier



QE - SYHM - W Series Water Cooled Modular Rectifier



QE - SYHS - A Series Air Cooled Synchronous Rectifier



QE - SCHA - A Series Air Cooled High - Frequency Rectifier

QE-SYHM-W Series

Water Cooled Modular Rectifier

Applications:

- Electrolysis
- Electrolytic Copper Foil
- Electrolytic Aluminum Foil
- Plating
- Metal Plating
- Chrome Plating
- Anodizing
- Any requiring large currents



FI (Fully Insured) Control System

Product Characteristics



Fully sealed protection, flexible placement

Compared to traditional air-cooled models, the product is completely enclosed internally, with strict protection levels ensuring that MST can adapt to various harsh application environments. It can be directly installed near the plating tank, significantly reducing the cost of connecting copper busbars and cables, and minimizing power loss. The internal circuit board is fully coated with acid-fog-proof "three-proof" adhesive, making electronic components less susceptible to environmental corrosion and enhancing product stability.



Cutting-edge synchronous rectification technology, with energy saving as the top priority

The full synchronous rectification technology uses high-performance, low on-resistance MOSFETs as rectifying devices, with a conversion efficiency that can reach up to 93%, showing excellent performance in energy saving and electricity conservation. An integrated electricity meter can also be optionally installed to accurately calculate the energy-saving effect.

The patented synchronous module components, intelligent driving and protection circuit boards are electrically connected with MOSFET chip arrays, achieving real-time feedback and dynamic balance, effectively reducing circuit losses and improving overall efficiency. Compared to traditional high-frequency switching power supplies and SCR rectifiers, the efficiency can be increased by 12%-20%.



No-delay hot backup technology

With no reaction delay time hot backup technology, multiple machines work in parallel at the same frequency and phase. When a unit within the system fails, the remaining units can quickly bring the total output current to the set level and stabilize it (time < 30ms).



Hot maintenance without downtime

Using an N+X redundancy backup system, when a module fails, the system automatically removes the faulty unit, and other modules share the current of the failed unit, keeping the total output voltage and current unchanged. At the same time, the faulty module can be removed for maintenance, greatly enhancing the reliability of the power supply.



High-precision integrated control motherboard

A high-density main control board design with comprehensive protection functions ensures that the main components of the switching power supply operate stably within a safe range. Fully digital networked control ensures highly stable output current.

Technical Parameter

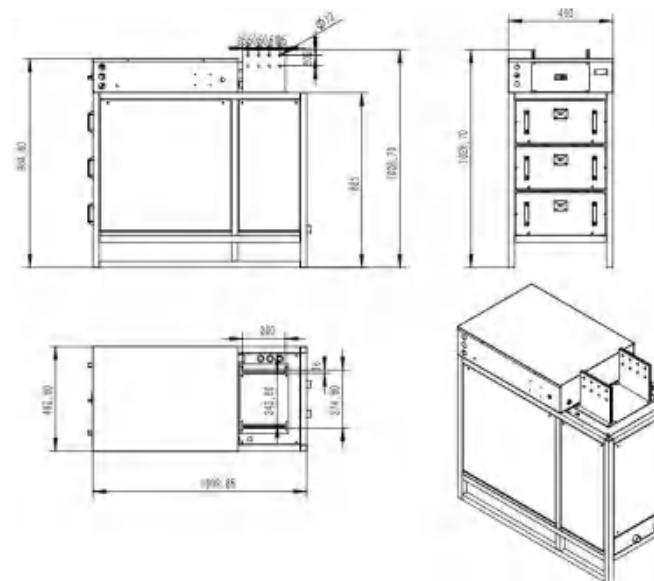
Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC ± 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	1% or Less	Altitude	Below 3000m
Steady Flow Accuracy	1% or Less	Output Voltage	0-12V Adjustable Linear
Power Factor	PF≥0.95(Under Rated Working Conditions)	Output Current	0-20000A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 °C - 45 °C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	93%(Under Rated Conditions)	Current Ripple	1% or Less

* Specifications can be customized according to the needs of the service

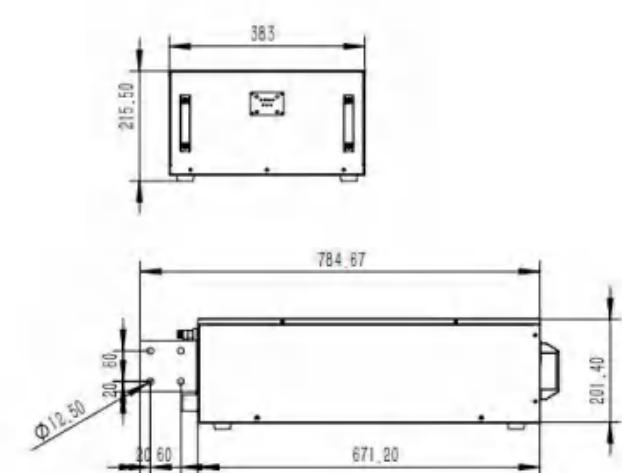
Size Specification

Specification and Model	W(mm)	D(mm)	H(mm)
4000A-6000A/0V-12V	473	676	729.2
6000A-9000A/0V-12V	493	1009.85	984.8
9000A-12000A/0V-12V	493	1009.85	1307.8

● Three - Layer Module Body Size (6000A - 9000A)



● Single Module Size(3000A)



QE - SYHS - W Series

Water Cooled Synchronous Rectifier

Applications:

It is relatively versatile and applicable to various industries, such as electroplating, electrolysis, and anodizing etc.



Product Characteristics



Chimeric strict closed structure to cope with acid and alkali gas and liquid intrusion, electronic control system coated with anti-acid anti-fog three anti-adhesive, to ensure that the equipment can cope with a variety of industrial environments.



Using a new type of rectifier device, the voltage drop is only 0.1 - 0.2V, which greatly improves the rectification efficiency and has excellent energy saving effect.



Full digital communication system, support RS485 & 232, Modbus, remote controller and other communication methods.



Power redundancy design allows full saturation operation and overclocking (exceeding rated current) operation in certain cases.



The unique cooling system of Jutian power makes the power supply small, lightweight, and greatly reduces the front size to improve the space utilization rate.



Double return flow heat dissipation structure, patented design, greatly reduce the body and copper heat, reduce heat loss, and further improve the rectification efficiency.

Technical Parameter

Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC ± 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	1% or Less	Altitude	Below 2500 m
Steady Flow Accuracy	1% or Less	Output Voltage	0-12V/0-24V Adjustable Linear
Power Factor	PF≥0.95(Under Rated Working Conditions)	Output Current	0-2000A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 °C - 45 °C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	≥93% (Maximum Efficiency 95%)	Current Ripple	1% or Less
Health Status	Long - term Full Load Continuous Operation	Class of Protection	Maximum IP54

* Specifications can be customized according to the needs of the service

Size Specification

Specification and Model	W(mm)	D(mm)	H(mm)
0-400A/0V-12V	234	330	203
400-600A/0V-12V	222.9	370	254.5
600A-1200A/0V-12V	263	426.2	232.3
1500A-2000A/0V-12V	383	587.7	202
2500A-3000A/0V-12V	383	667.7	202
3000A-4000A/0V-12V	383	817.7	202

QE - SYHM - A Series

Air Cooled Modular Rectifier

Applications:

- Electrolysis
- Electrolytic Copper Foil
- Electrolytic Aluminum Foil
- Plating
- Metal Plating
- Chrome Plating
- Anodizing
- Any requiring large currents



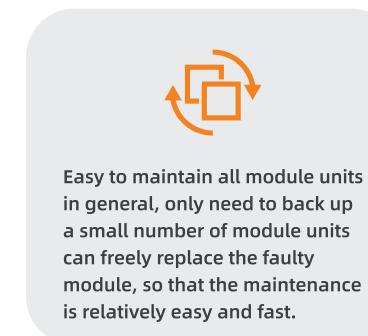
Product Characteristics



Adopt new four-channel IGBT technology structure.



Improve the reliability of plating production operation: the rectifier is designed with the mode of N+1, all modules are involved in the work under normal conditions, if the equipment fails, the power supply will not stop, the system will automatically reduce the current operation and exit the faulty unit, without affecting the production.



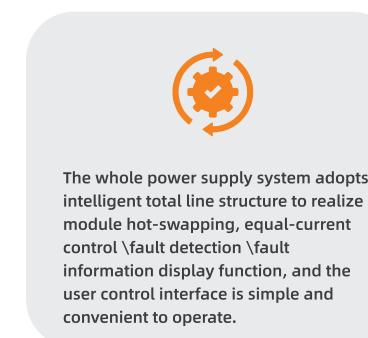
Easy to maintain all module units in general, only need to back up a small number of module units can freely replace the faulty module, so that the maintenance is relatively easy and fast.



Network digital control system, each module unit are microprocessor as the control core, the main use of software programs to achieve automatic equalization control scheme, flexible control, high precision, fast current response, high reliability.



The main control circuit board adopts advanced Japanese imported sealing and potting glue sealing design method to resist acid and alkali, and can be placed directly next to the plating tank.



The whole power supply system adopts intelligent total line structure to realize module hot-swapping, equal-current control \ fault detection \ fault information display function, and the user control interface is simple and convenient to operate.

Technical Parameter

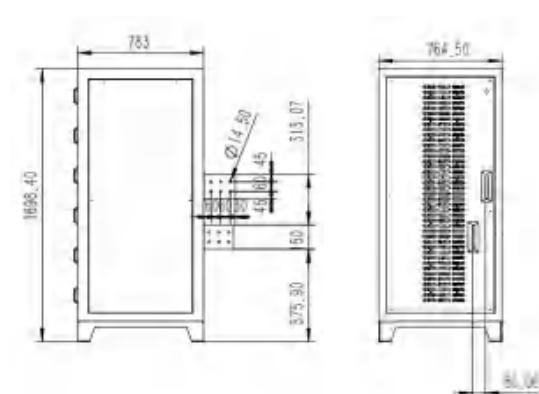
Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC ± 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	< 1%	Altitude	Below 2500 m
Steady Flow Accuracy	< 1%	Output Voltage	0-12V/0-24V Adjustable Linear
Power Factor	PF≥0.95(Under Rated Working Conditions)	Output Current	0-10000A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 °C - 45 °C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	≥93% (Rated Output ≥ 50%)	Current Ripple	1% or Less

* Specifications can be customized according to the needs of the service

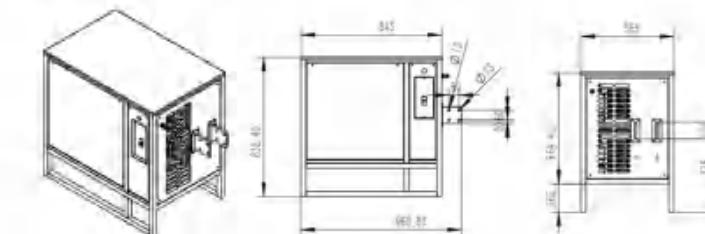
Size Specification

Specification and Model	W(mm)	D(mm)	H(mm)
0-600A/0V-12V	343	413	219.2
600A-1000A/0V-12V	386	515	223
1000A-1500A/0V-12V	453	631.5	286
3000A/12V	555	843	832.4
5000A/12V	764.5	783	1450.4
6000A/12V	764.5	783	1698.4

● (6000A/12V)



● (3000A/12V)



QE - SYHS - A Series

Air Cooled Synchronous Rectifier

Applications:

- Continuous plating
- Precision plating
- Wafer plating
- Precious metal plating
- Electronic component plating
- Any requiring small currents



Product Characteristics



Patented heat dissipation structure design, significantly reducing the impact of heat loss.



Internal circuit boards coated with acid and fog - proof "three - proof" adhesive, protecting the equipment for stable operation.



Compact, lightweight, and flexible placement.



Adoption of new rectification devices, with a voltage drop of only 0.1-0.2V, greatly improving rectification efficiency and offering excellent energy - saving effects.



Fully digital communication system, supporting various communication methods including RS485 & 232, Modbus, and remote controllers.

we are offering the world's leading power solutions - all to build more enduring value

Stable · Efficient · Cost-Friendly · Energy-Saving

Technical Parameter

Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC ± 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	1% or Less	Altitude	Below 2500 m
Steady Flow Accuracy	1% or Less	Output Voltage	0-12V/0-36V Adjustable Linear
Power Factor	PF≥0.95(Under Rated Working Conditions)	Output Current	0-500A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 °C - 45 °C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	≥90% or Higher	Current Ripple	3% or Less
Health Status	Long - term Full Load Continuous Operation	Class of Protection	Forced Air Cooling, Self-Cooling

* Specifications can be customized according to the needs of the service

Size Specification

W(mm)	D(mm)	H(mm)	Weight(KG)
428	430	155	13

QE - SCHS - A Series

Air Cooled High - Frequency Rectifier

Applications:

- Other PCB processes
- PCB etching
- Copper deposition
- PCB desmearing



Product Characteristics



Ultra-low ripple coefficient, high current accuracy and high uniformity of plating.



Adopting new four-channel IGBT technology structure modularized parallel technology output current.



High power factor, high efficiency, energy-saving and environmental protection products.



The main control circuit board adopts advanced Japanese imported sealing and potting glue sealing design method to resist acid and alkali, and can be placed directly in each corner of the plating tank.



Built-in soft-start, over-temperature, over-voltage, overload, short-circuit and current-limit protection functions.



The control system adopts international RS485 network control, ProfiBus-DP, network control and Device Net, AD/DA control, standard 4 - 20MA control function.

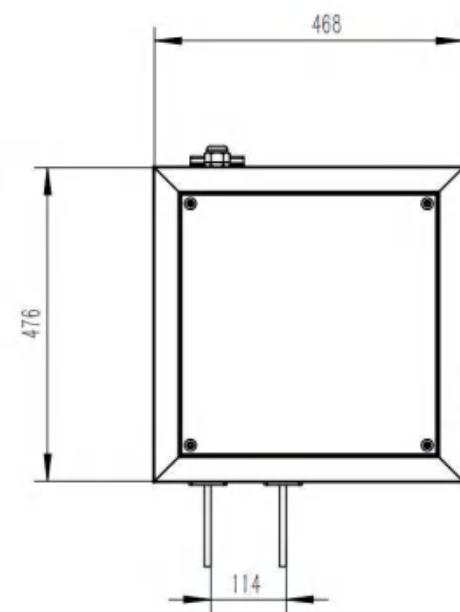
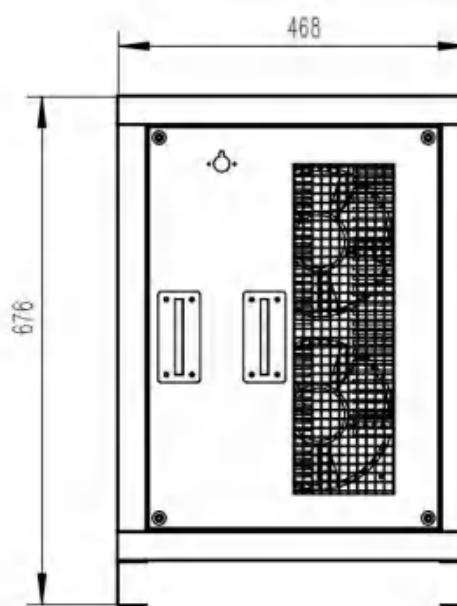
Technical Parameter

Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC ± 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	1.5% or Less	Altitude	Below 2500 m
Steady Flow Accuracy	1.5% or Less	Output Voltage	0-12V, 0-24V Adjustable Linear
Power Factor	PF≥0.9(Under Rated Working Conditions)	Output Current	0-2000A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 °C - 45 °C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	88% (Id≥50%)	Current Ripple	3% or Less

* Specifications can be customized according to the needs of the service

Size Specification

W(mm)	D(mm)	H(mm)	Weight(KG)
468	476	676	72



QE - SYHM - W Series

Dual Water Cooled Synchronous Rectifier

Applications:

- PCB industry
- Copper plating
- Vertical continuous plating
- Pattern plating
- Panel plating



Technical Parameter

Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC ± 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	1% or Less	Altitude	Below 2500 m
Steady Flow Accuracy	1% or Less	Output Voltage	0-12V Adjustable Linear
Power Factor	PF≥0.95(Under Rated Working Conditions)	Output Current	0-1000A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 °C - 45 °C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	≥93% (Maximum Efficiency 95%)	Current Ripple	1% or Less
Health Status	Long - term Full Load Continuous Operation	Class of Protection	Maximum Ip54

* Specifications can be customized according to the needs of the service

Product Characteristics

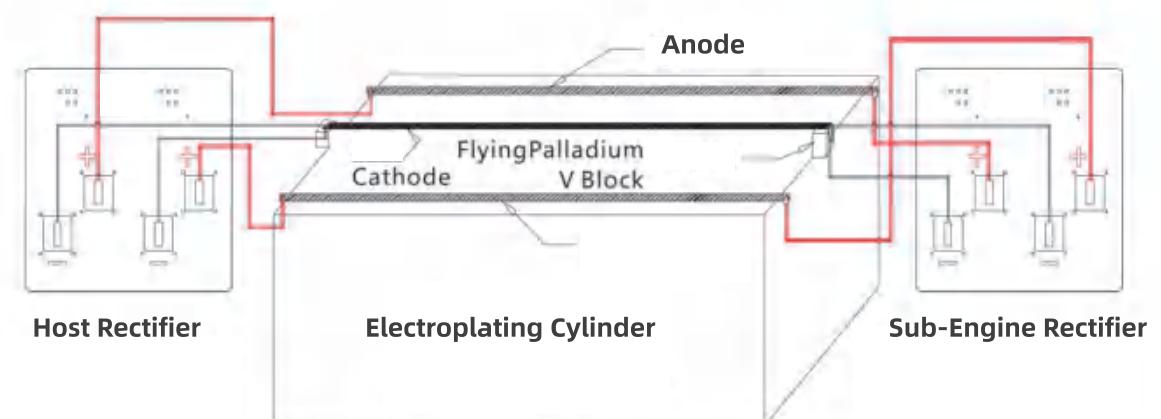
	Ultra - low ripple coefficient, high current accuracy and high uniformity of plating.
	High frequency 85KHZ, small volume, light weight, beautiful shape.
	High power factor, high efficiency, energy - saving and environment - friendly products.

	Built - in soft - start, over - temperature, over - voltage, overload, short - circuit and current - limit protection functions.
	The control system adopts international RS485 network control, ProfiBus - DP, network control as well as Device Net, AD/DA control, and standard 4 - 20MA control function.

	Rectifier control output current using dual output distribution, promote VCP plating tank A/B two sides of the same current, current distribution is very uniform, solve the traditional A/B side of the current error problem (the original current distribution is dependent on the cable or copper conductive resistance to determine the size of the current distribution, the error range of more than 10% or more), double output rectifier row of electricity distribution is independent control, A side 400AB Side 400A, dual output rectifier current distribution error range of 1% or less).
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Size Specification

Specification and Model	W(mm)	D(mm)	H(mm)
0-400A/0V-12V	247	506.2	200
400-600A/0V-12V	247.7	463	253



Dual Output Rectifier DC Cable Wiring Diagram

RECTIFIER DC POWER SUPPLY



PROFESSIONAL SOLUTION PROVIDER
FOR INDUSTRIAL POWER