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RECTIFIER DC POWER SUPPLY

**PROFESSIONAL SOLUTION PROVIDER
FOR INDUSTRIAL POWER**



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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

EFFICIENT

HIGH CURRENT

ULTRA-LOW RIPPLE

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.



HISTORY

OUR HISTORY

2010



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

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

Second-Generation High-Frequency Switching Rectifier

Integrated Design
Schottky Rectification
Power Factor Significantly Higher Than Thyristor Type

2012



2014



Third-Generation Synchronous Rectifier

MOSFET Rectification
Efficiency: 88-90%
Modular Design
Online Hot Maintenance, Significantly Reduced Downtime

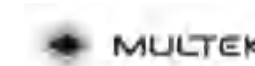
2018

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



MARKETING AREAS



Our market covers over 40 countries

OUR CERTIFICATES



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.

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.

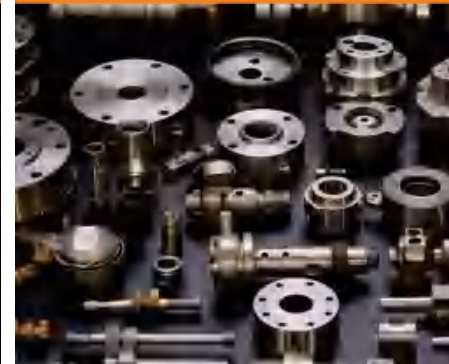


APPLILCATION FIELD

Printed Circuit Boards



Surface Treatment Industry



Electrolytic Copper Foil



Hydrogen Production by
Electrolysis



Petroleum Refining



Environmentally Friendly Water
Treatment



Photovoltaic Industry



Rare Earth Smelting



Main applications of the company's products

● New Energy

● Surface Treatment

● Electrolysis

● Electrochemistry

● Smelting

● Communication

PROJECTS CASE



New energy-copper foil
Synchronous Rectifier-50ka



New energy-lithium copper foil
Synchronous rectifier-60KA



Hydrogen production field
Synchronous Rectifier -3000A/12V



PCB plating -tin, copper
Dua water cooled Synchronous
Rectifier



Photovoltaic field-continuous plating
Carborundum plating Rectifier



Metal Plating Synchronous power
supply 300A/12V

PROJECTS CASE



ABS plating (automotive parts)
Synchronous Rectifier



PCB plating
Dual water-cooled
synchronous Rectifier



Oxidation Production Line



300kA/120V High-power
Power Supply
Aluminium Electrolysis



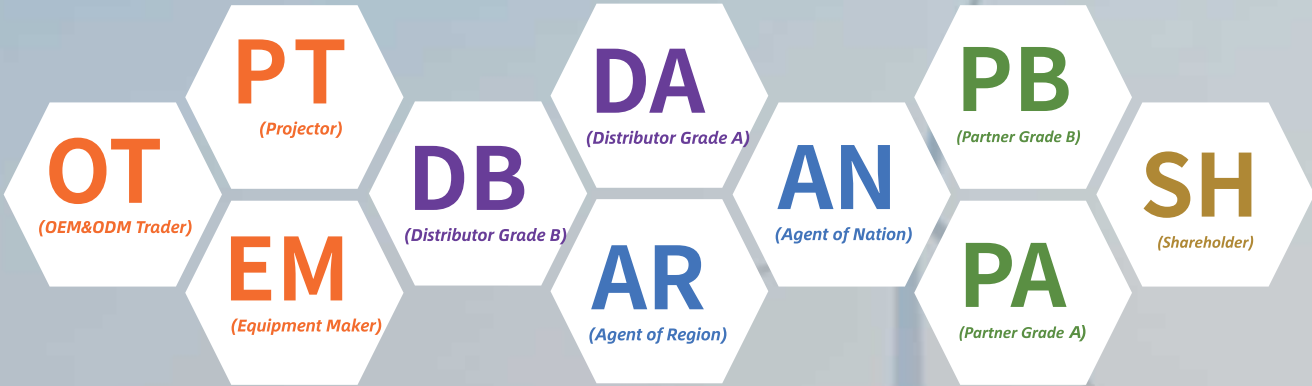
Copper Electrolysis Project



Electroplating Production Line

PARTNERSHIP MODELS

Partnership models-Ten different choices



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

Precision Engineering for Continuous
and Reliable Power Output

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 $\pm$ 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 $\geq$ 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

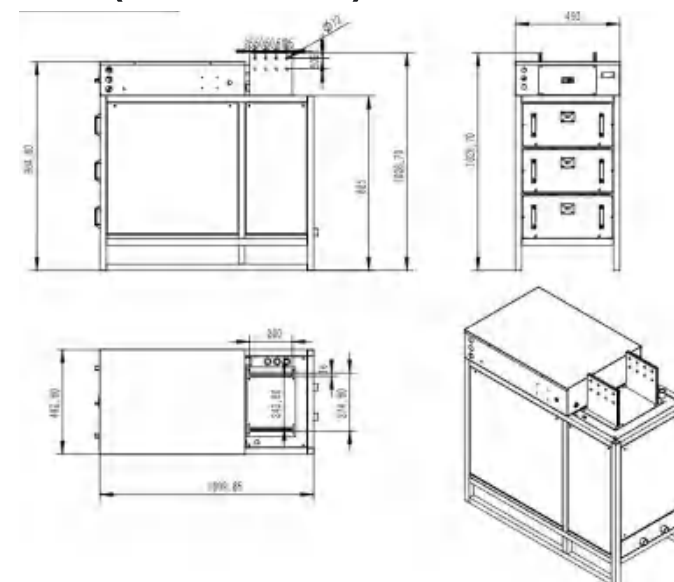
* Specifications can be customized according to the needs of the service

Size Specification

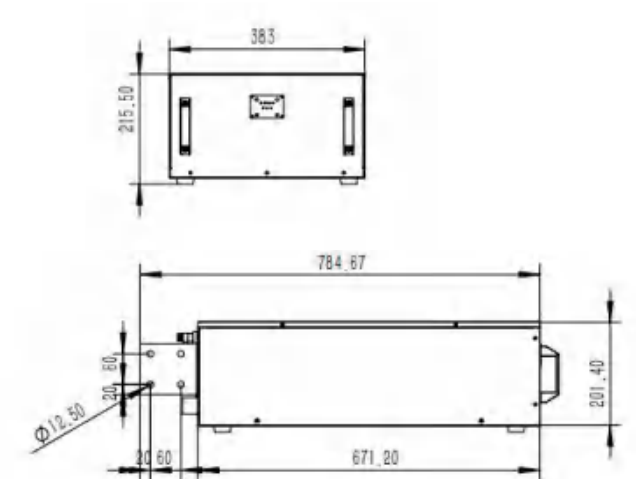
Specification and Model	W(mm)	D(mm)	H(mm)
4000A-6000A/0V-12V	473	676	730
6000A-9000A/0V-12V	493	1010	985
9000A-12000A/0V-12V	493	1010	1308

* The dimensional error is $\pm$ 2 mm

● 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 enables the power supply to achieve miniaturization, lightweight, significant dimension reduction, and effective space utilization enhancement.



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 $\pm$ 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 $\geq$ 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	$\geq$ 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	223	370	255
600A-1200A/0V-12V	263	427	233
1500A-2000A/0V-12V	383	588	202
2500A-3000A/0V-12V	383	668	202
3000A-4000A/0V-12V	383	818	202

* The dimensional error is $\pm$ 2 mm

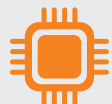
QE-SYHM-A Series Air Cooled Modular Rectifier

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 $\pm$ 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 $\geq$ 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	$\geq$ 93% (Rated Output $\geq$ 50%)	Current Ripple	1% or Less

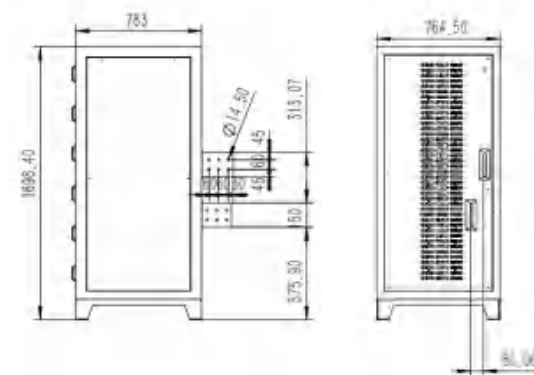
* Specifications can be customized according to the needs of the service

Size Specification

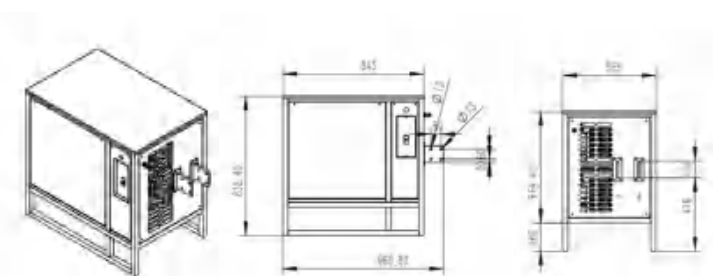
Specification and Model	W(mm)	D(mm)	H(mm)
0-600A/0V-12V	343	413	220
600A-1000A/0V-12V	386	515	223
1000A-1500A/0V-12V	453	632	286
3000A/12V	555	843	833
5000A/12V	765	783	1451
6000A/12V	765	783	1699

* The dimensional error is $\pm$ 2 mm

● (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 $\pm$ 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 $\geq$ 0.95(Under Rated Working Conditions)	Output Current	0-500A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 $^{\circ}$ C - 45 $^{\circ}$ C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	$\geq$ 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

* The dimensional error is $\pm$ 2 mm

QE-SYHD-W Series Dual Water Cooled Synchronous Rectifier

Applications:

PCB industry
Copper plating
Vertical continuous plating
Pattern plating
Panel plating



Product Characteristics



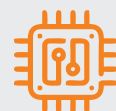
Ultra - low ripple coefficient, high current accuracy and high uniformity of plating.



High frequency 85KHZ, small volume, light weight, beautiful shape.



High power factor, high efficiency, energy - saving and environment - friendly products.



The power module adopts advanced Japanese imported sealing and potting glue sealing design method to resist acid and alkali, and can be placed directly in every 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 as well as Device Net, AD/DA control, and standard 4 - 20MA control function.



Synchronous rectifier output current technology uses electric power (MOSFET) with very low pass - state resistance to replace rectifier diodes, which can greatly reduce the voltage drop loss of rectifier circuit (0.1V - 0.2V) and improve the efficiency of DC/DC converter by more than 94%.



Ultra - low ripple and high frequency design solutions effectively improve the UHF switching power supply required for vertical continuous plating (VCP) line configuration, and the uniformity of plating can reach more than 96%.



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 400A B Side 400A, dual output rectifier current distribution error range of 1% or less).

Technical Parameter

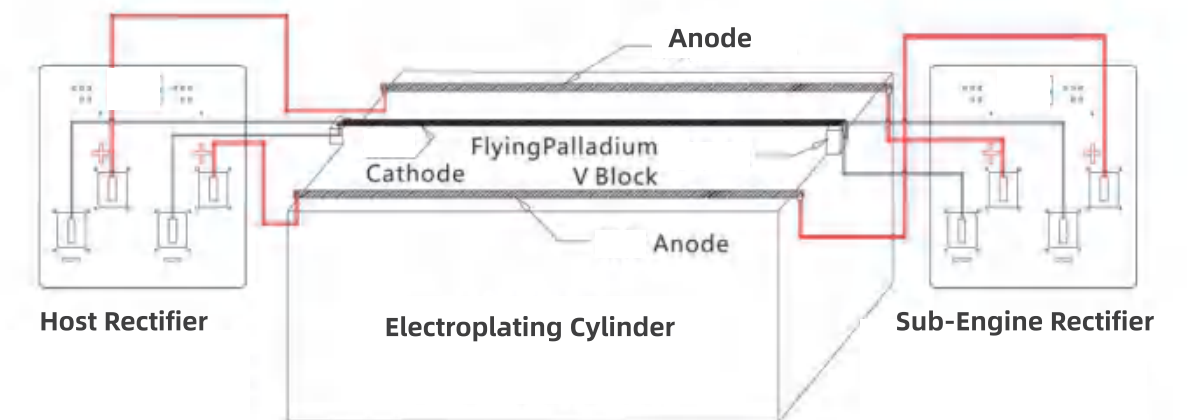
Parameter Information	Technical Requirements	Parameter Information	Technical Requirements
Input Voltage	3-Phase 380VAC $\pm$ 10%	Place of Use	Indoor, No Direct Sunlight
Voltage Regulation Accuracy	1% or Less	Altitude	Below 2500 m
Steady Flow Accuracy	1% or Less	Output Voltage	0-12V Adjustable Linear
Power Factor	PF $\geq$ 0.95(Under Rated Working Conditions)	Output Current	0-1000A Adjustable Linear
Regulation Mode	RS485 Communication, Remote Controller	Temperature Environment	-20 $^{\circ}$ C - 45 $^{\circ}$ C
Protection Mode	Over Temperature, Over Current, Lack Of Phase	Control Mode	CC & CV
Conversion Efficiency	$\geq$ 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	247	507	200
400-600A/0V-12V	248	463	253

* The dimensional error is $\pm$ 2 mm



Dual Output Rectifier DC Cable Wiring Diagram



High Frequency Rectifier

Parameter Specifications

1	AC Input Voltage	AC 380V, 50/60Hz , Special specifications can be customized.
2	DC Output Voltage	0-400V continuously adjustable , customizable
3	DC Output Current	0-300000A continuously adjustable , customizable
4	Overall Ripple Coefficient	1%-10% , customizable
5	Conversion efficiency	90%-94% (SiC-based models can reach up to 98%)
6	Output waveform	DC waveform or other customizable waveforms
7	Cooling method	Air-cooled/Water -cooled
8	Communication & Control Mode	RS -485,Remote control,local control

Application Industry

- Printed Circuit Boards
 - Surface Treatment Industry
 - Electrolytic Copper Foil
 - Petroleum Refining
 - Photovoltaic Industry
- Rare Earth Smelting
 - Communication
 - Hydrogen Production by Electrolysis
 - Environmentally Friendly Water Treatment

Surface Treatment Rectifier



Technical characteristics

- The product has a simple appearance and a reasonable structure. It is composed of multiple sets of self-developed high-frequency transformers connected in series.
- There are protection measures such as soft start, overvoltage, overcurrent, phase loss and overheating.
- The water-cooled series power supply is fully sealed, and the internal circuit board is made of acid-proof and anti-fog three-proof glue, which can be used for a long time and run stably in the highly acid-alkaline environment of the five-surface treatment industry.
- The whole system is equipped with advanced 485 network digital control function as standard, which can be connected to the host computer to realize automatic operation monitoring .

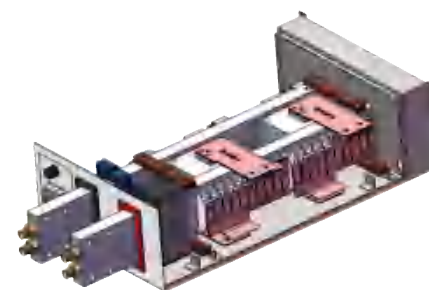
Parameter specifications

Input voltage:	AC 380V±10%;
Voltage regulation accuracy:	≤1%
Steady current accuracy:	≤1%
Rated efficiency:	≥94%
Power factor:	≥0.98
Ripple coefficient:	≤1%
Working environment:	-10-55°C
Cooling method:	air-cooled/water-cooled
Operating status:	24 hours at full load

Electrolytic Power Supply

Application Industry

High-power electrolysis industries such as electrolytic hydrogen production, electrolytic copper, and electrolytic aluminum



Technical characteristics

- High reliability. The main power devices are high-quality devices from well-known manufacturers at home and abroad. Adopt Japanese Fuji rectifier bridge, German Infineon IGBT, High-quality power devices provide strong reliability for high-frequency switching power supply.
- The new N +1 mode is used for parallel superposition, Each unit is set by the central control system for automatic current sharing given output.
- Perfect protection function with soft start, overcurrent, overheating and many other automatic protection and sound and light alarm functions.
- The unit module adopts new structural design and there is no internal pipeline connection design to prevent the hidden danger of pipeline aging and water leakage.

Parameter specifications

Steady flow accuracy:	≤0.5%
Voltage regulation accuracy:	≤0.5%
Rated efficiency:	94%
Switch tube component configuration:	Infineon IGBT
Cooling method:	Air-cooling/water-cooling
Health status:	24 hours full load
Structural type:	N + 1 single machine superimposed structure
Output current:	0-500KA
Output current:	0-45V

MOS Rectifier Power Supply



Technical characteristics

- Using a new type of energy - saving imported rectifier MOS tube, its voltage drop is only 0.1V, which is 0.6V lower than the 0.7V of the traditional switching power supply diode. Through reasonable circuit design, the energy-saving effect of switching power supply is greatly improved.
- Provides production run reliability. The high-frequency synchronous rectification power supply adopts N +1 mode in the design. Under normal circumstances, all modules participate in the work. If the equipment fails, the power supply will not stop. The central control system will automatically reduce the current operation and cut out the faulty unit, without affecting production.
- All modular units are generalized, and only a few modular units need to be backed up to replace faulty modules, which is relatively easy to maintain.
- N+X redundant backup system design supports full load operation.

Parameter specifications

Model specification:	Output AC380V $\pm$ 10%; Input frequency range: 50Hz to 60Hz
Output voltage:	0-24V
Output current:	0-80000A
Rectification method:	full wave MOS rectification
Switch core pipe fittings:	Infineon IGBT
Rectification core pipe fittings:	Infineon, IR MOS
Structural type:	N +1 modular superposition
Cooling method:	air-cooled/water-cooled

Water Treatment Power Supply



Process Introduction

The reaction principle of electroflocculation is to use metals such as aluminum and iron as the anode. Under the action of direct current, the anode is eroded to produce Al and Fe plasma. After a series of hydrolysis, polymerization and oxidation of ferrous iron, it develops into various hydroxyl groups complexes, polynuclear hydroxyl complexes and hydroxides separate the impurities and suspended impurities in the wastewater by coagulation and precipitation. At the same time, the charged pollutant particles swim in the electric field and part of their charges are neutralized by the electrodes to promote their destabilization and coagulation.

Parameter specifications

Input voltage:	AC380V $\pm$ 10%
Input frequency :	50Hz
Operating status:	24 hours non-stop operation
Commutation response:	MS class
Conversion efficiency:	$\geq$ 94%
Power factor:	$\geq$ 0.95
Voltage regulation accuracy:	$\leq$ 1%
Steady current accuracy:	$\leq$ 1%
Display resolution:	0.1A, 0.1V
Ripple factor:	$\leq$ 3%
Communication:	RS -485 Communication

Monocrystalline Silicon Heating Power Supply

Technical characteristics

The monocrystalline silicon heating power supply adopts a modular design, and a technology-leading power supply that realizes high-power and high-current output through parallel connection of multiple modules. The system can adopt N+1 redundant design, which greatly improves the system reliability. Products are widely used in photovoltaic fields such as crystal growth and optical fiber preparation.

Product characteristics

- Modular redundant design
- High stability
- High conversion efficiency
- High power factor
- High reliability
- Low noise, high protection level
- Constant voltage, constant current and constant power can be selected
- Drawer type installation, easy maintenance



Parameter specifications

Input voltage:	3P AC 360V~500V (customized for special specifications)
Output voltage:	DC 6V~800V (special specifications can be customized)
Control accuracy:	≤1%
Power factor:	≥0.96
Control mode:	U、I、P
Protection function:	overvoltage, overheating, overcurrent, water pressure protection
Output current:	DC100A~60000A (special specifications can be customized)
Cooling method:	air cooling, water cooling
Stability:	≤1%
Conversion efficiency:	90%~94%
Given method:	analog, digital, communication

Rare Earth Smelting DC Power

Technical characteristics

The special power supply for rare earth electrolysis is a new generation of rare earth electrolysis power supply developed by our company. It is suitable for electrolytic processing of metal praseodymium neodymium and metal neodymium and other rare earth metals. This product adopts the world's advanced phase-shift control full-bridge zero-voltage zero-current pulse-width modulation power conversion technology and combines the working characteristics of the rare earth industry and field use requirements. The product has high efficiency,energy saving, high reliability, small size, low noise, light weight, stable current, convenient operation and maintenance, It meets the national energy saving requirements. It is an ideal product for the replacement of power supplies in the rare earth electrolysis industry.

Product characteristics

- Using high-frequency phase shift control full-bridge zero-voltage zero-current pulse-width modulation power conversion technology.Under any working conditions,the peak value of the voltage pulse is the same, which accelerates the ion exchange efficiency of the electrolyte and improves the speed and quality of electrolysis.
- The power factor compensation device is added inside the product, and the power factor can reach 0.98 during normal operation, which effectively improves the efficiency of the distribution power transformer, reduces the investment in power lines, and does not need to add reactive power compensation devices.
- High efficiency and significant energy saving, which is more than 30% more energy-saving than conventional phase-controlled power supplies. For example, the input current of a conventional phase-controlled power supply is about 100A during normal electrolysis, but this product is only about 70A under the same working conditions. Allow users to easily realize cost control.
- Less heat dissipation and high temperature resistance. This product does not have a huge power frequency rectifier transformer and rectifier tube, so it has less heat dissipation and reduces the heat dissipation loss of the product. The internal heat dissipation structure and power components of this product are specially designed according to the special working environment of the rare earth electrolysis industry. It is different from ordinary high-frequency power supplies and can work normally and continuously at an ambient temperature of 50 °C .



Parameter specifications

Input voltage:	AC380V±10%
Input frequency :	50Hz
Power factor:	≥0.95
Output voltage:	0-60V
Output current:	0-20000A
Steady current accuracy:	≤1%
Voltage regulation accuracy:	≤1%
Dielectric strength:	Input-output A C1000V , 1 0 m A , 1 minute; input - chassis: A C1000V , 1 0 m A 1 minute
Insulation resistance:	input-output: ≥ 5M Ω; input-chassis: ≥ 5M Ω Input-chassis: ≥5 MΩ
Display resolution:	0.1A,0.1V
Ripple factor:	≤3%
Communication:	RS -485 Communication
Start mode:	start with load
Design service life:	20years

Frequency Pulse Power Supply

Application Industry

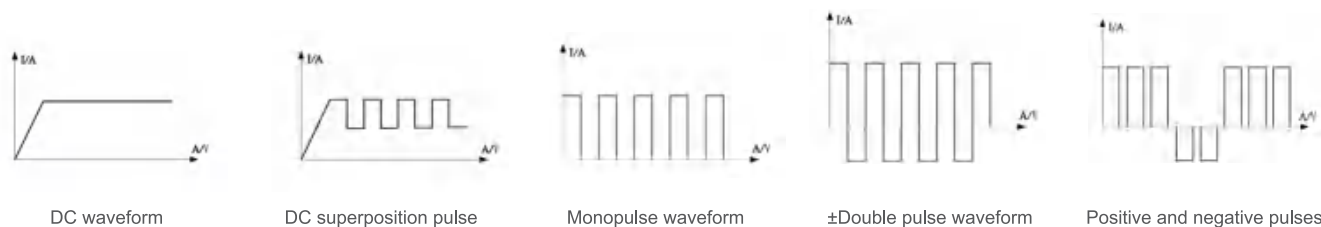
PCB board electroplating, anodic oxidation, sewage treatment, machine tool electromechanical, etc. need pulse power supply;

Product characteristics

- The operation is displayed on the touch screen, and the functions are simple and fast.
- Waveform selection: ordinary DC, single pulse waveform, DC superimposed pulse waveform, positive and negative double pulse waveform, positive and negative pulse group waveform
- According to different applicable scenarios and processes, core parameters such as duty cycle and frequency can be set separately. And can store 30 sections of process settings.
- Pulse power supply operation displays real-time process curves for user reference, and can retrieve operating data within 90 days to facilitate data tracking .
- According to the actual region and environment, two cooling methods, air cooling and water cooling, are provided for users to choose.

Parameter specifications

Input voltage:	AC380V±10%
Input frequency:	50Hz/60Hz
Rated output current (dc):	0-5000A
Rated output voltage (DC) :	0-110V
Adjustable frequency:	100-10KHz
Adjustable duty cycle:	3%-95%
Cooling method:	air-cooled/water-cooled
Control mode:	local touch screen / remote touch screen



Aging Power Supply

Application Industry

Aging test of resistors, capacitors, batteries, relays, inverters, DC motors, etc.

Product characteristics

- It has multiple output modes of constant voltage, constant current and constant power.
- Fast transient response .
- Using high-speed digital control technology, the output accuracy reaches 0.1%.
- Adopt PWM rectification technology, power factor>0.99, input harmonics<3%, efficiency greater than 93%.
- With automatic voltage drop compensation function, it can automatically compensate line voltage drop.
- It adopts seven-inch touch screen operation, which is convenient to operate and display.
- The output parameters and protection parameters are programmable, which can be applied to different types of equipment testing.
- The internal components adopt LEM, Infineon and other international brands, and the equipment has high reliability.
- Modular design is adopted, and the equipment is easy to maintain in the later stage.

Parameter specifications

Input voltage:	AC380V±10%
Input frequency :	50Hz
Power factor:	≥0.95
Output voltage :	0-1500V
Output current :	0-6000A
Steady current accuracy:	≤1%
Voltage regulation accuracy:	≤1%
Display resolution:	0.1A,0.1V
Ripple factor:	≤3%
Control mode:	touch screen control
Communication:	RS -485 Communication
Start mode:	start with load
Design service life:	20 years

Electroplating Rectifier

Application Industry

Hardware plating: zinc plating, nickel plating, tin plating, chromium plating, copper plating, imitation gold, etc.
 Precious metal plating: silver plating, gold plating, etc.
 Plastic electroplating industry: mobile phone industry, automobile industry, sanitary ware industry, etc.
 Circuit board electroplating: single layer, double layer, multi-layer board.



Product characteristics

- The power supply is specially designed for the electroplating industry. It can be used in harsh environments with severe acid corrosion and salt spray, and can be placed directly next to the tank.
- The outer casing is specially treated to avoid corrosion by acid mist, greatly extending the service life of the power supply. It has high control accuracy and low ripple coefficient, and can meet different process requirements.
- The efficiency is greater than 90% and the power factor is over 0.95, saving energy and electricity.
- There are protection measures such as soft start, overcurrent, overvoltage, overheating, and phase loss.
- Optional functions such as timing, setting time, and filling are available.
- The entire series comes standard with RS485 digital networking and can be customized with 4-20MA, 0-10V, 0-5V and other controls.

Parameter specifications

Input voltage:	AC 380V±10%; 50HZ/60HZ
Output voltage:	0-18V (can be customized according to requirements)
Output current:	0-15000A (can be customized according to requirements)
Adjustment method:	intelligent digital adjustment/analog stepless adjustment (specify when ordering)
Adjustment range:	voltage 0-maximum
Reversal mode:	regular, periodic, remote (host computer)
Slow start time:	0-99 seconds/0-999 seconds setting
Start time method:	external button start switch (specify when ordering)
Cooling method:	air cooling/water cooling
Operating status:	24 hours operation at full load

Electrophoretic Power Supply

Application Industry

High-frequency electrophoretic deposition rectifier power supplies are widely used in electrophoretic coating production lines such as automobiles, motorcycles, home appliances, and metal shells, as well as rectifier power supplies with similar technical requirements.



Technical characteristics

- The high-performance filter reactor is used to effectively suppress the harmonic component of the output of the rectifier and meet the requirements of low output ripple output in the production process of electrophoretic painting;
- With soft start function, constant voltage method or constant current method can be selected according to process requirements;
- With timing control and various protection functions.

Parameter specifications

Input voltage:	AC 380V ± 10% ; 50HZ/60HZ;
Output voltage:	0-100V, 0-150V, 0-200V, 0-250V, 0-300V, 0-350V, 0-400V (can be customized according to requirements)
Output current:	0-50A、0-100A、0-200A、0-300A、0-400A、0-500A、0-600A、0-800A、0-1000A、0-1500A(can be customized according to requirements)
Adjustment method:	intelligent digital adjustment / analog stepless adjustment (indicated when ordering)
Adjustment range:	voltage 0-maximum value
Time control:	a total of 30 working hours can be set
Slow start time:	0-99 seconds/0-999 seconds setting
Start time mode:	external button starts switch (indicate when ordering)
Cooling method:	air-cooled/water-cooled
Operating status:	24 hours at full load

Chrome-Plated Power Supply



Technical characteristics

- The water-cooling unit is fully sealed, modular, combined, and adopts N+X redundant backup system.
- Each module is exactly the same. When replacing a module, just dial the address code to be the same as the address of the module to be replaced.
- Adopt new rectifier device, device voltage drop 0.1V-0.2V, high rectification efficiency, energy saving.
- Fully computerized and fully digital intelligent control system, convenient for production management and access to DCS system.
- There are protective measures such as soft start, overvoltage, overcurrent, phase loss and overheating.
- The internal circuit board is made of anti-acid and anti-fog three anti-adhesive, which prevents the electronic components from being corroded by the environment, and the product is durable.

Parameter specifications

AC input voltage:	three-phase AC380V±10% 50±HZ
Output waveform:	DC waveform
Output voltage:	0 - 24 V (continuously adjustable)
Output current:	0 - 50 000A (continuously adjustable)
Steady current accuracy:	≤1%
Voltage regulation accuracy:	≤1%
Current ripple factor:	≤1%
Optional function:	automatic periodic reversing function
Cooling method:	air-cooled/water-cooled
Protection features:	Self-protection functions under abnormal conditions such as overvoltage, overcurrent, overload, short circuit, overheating, etc.

Anodic Oxidation Power Supply



Application Industry

Aluminum oxidation, aluminum alloy oxidation, anodic oxidation, hard oxidation, porcelain oxidation, micro-arc oxidation, oxidation coloring and other oxidation surface treatment fields

Technical characteristics

- Accurate constant current and constant voltage output characteristics, the control accuracy is within ±0.5V and ±0.5A respectively.
- Support local and remote control two working modes. It has timing and timing functions for the oxidation process.
- It can be equipped with superimposed pulse output and the pulse frequency and duty cycle can be precisely adjusted.
- Optional step voltage, current, time control output, full digital control.
- Perfect equipment protection functions, including phase loss, short circuit, overcurrent, overvoltage, etc.

Parameter specifications

Input voltage:	AC380V±10% 50Hz
Output voltage:	0-150V
Output current:	0-100KA
Duty cycle:	5 - 95% (optional)
Output frequency:	100-10KHz(optional)
Pulse width:	100-1000us
Output waveform:	DC waveform, single pulse waveform, DC superimposed pulse waveform, positive and negative double pulse waveform
Voltage regulation accuracy:	≤0.5%
Steady flow accuracy:	≤0.5%
Process segment:	30 segments
Historical data:	stored for 90 days
Control mode:	common controller/touch screen control
Start mode:	start with load