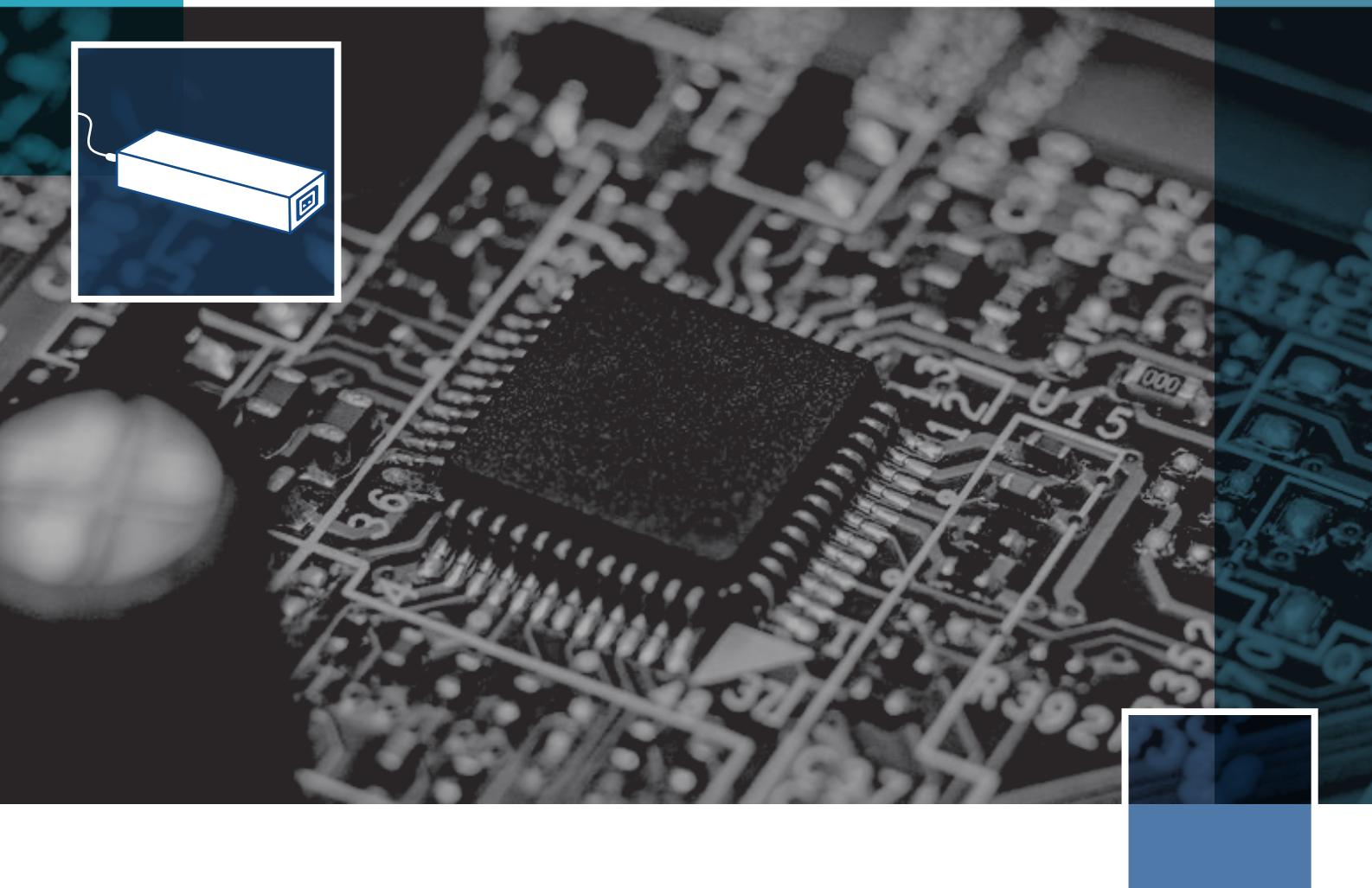
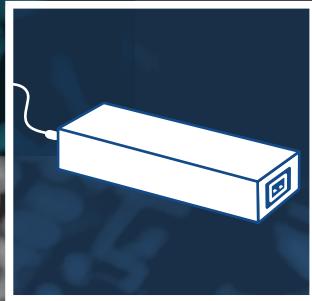


High power AC/DC Adapter



- High efficiency
- Miniaturisation
- Weight saving

CONTENTS

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OUR PRINCIPLE



SAFE



ECO-FRIENDLY



EFFICIENT



About UNIFIVE

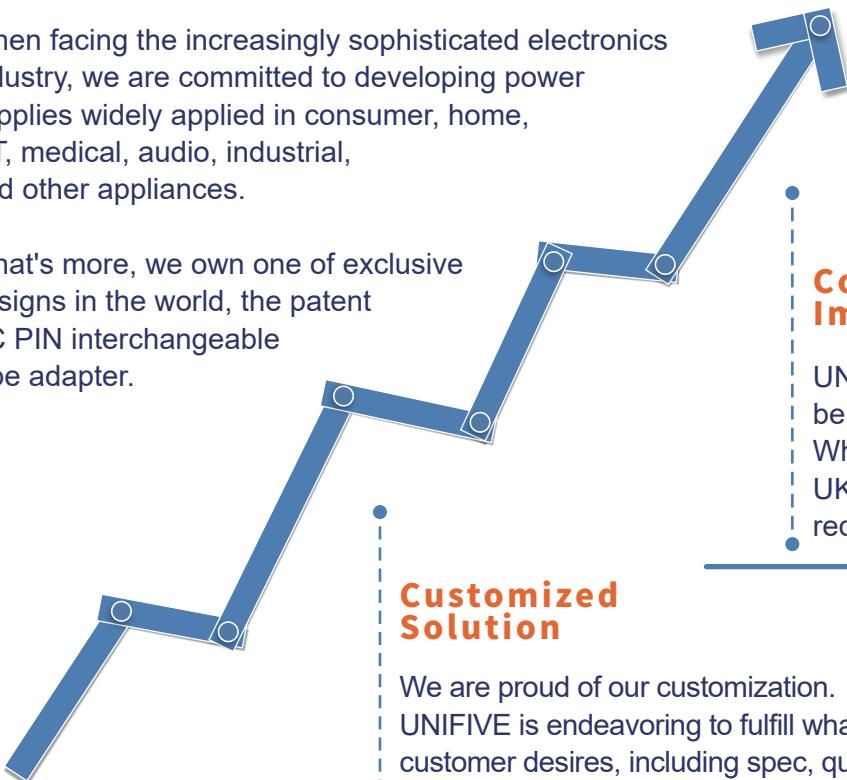
Since 1989, UNIFIVE has been known for its "high quality and high reliability" in the market of AC/DC power supplies (Adapter and Open Frame etc.).



Quality Improvement

When facing the increasingly sophisticated electronics industry, we are committed to developing power supplies widely applied in consumer, home, IoT, medical, audio, industrial, and other appliances.

What's more, we own one of exclusive designs in the world, the patent AC PIN interchangeable type adapter.



Constantly Improving Quality

UNIFIVE's power supply is designed to be small, light, simple, and efficient. What's more, it is available for PSE, CE, UKCA, FCC, DOE VI, and other certification required by customer.



Customized Solution

We are proud of our customization. UNIFIVE is endeavoring to fulfill what customer desires, including spec, quality, various regulations, and all kinds of special request.

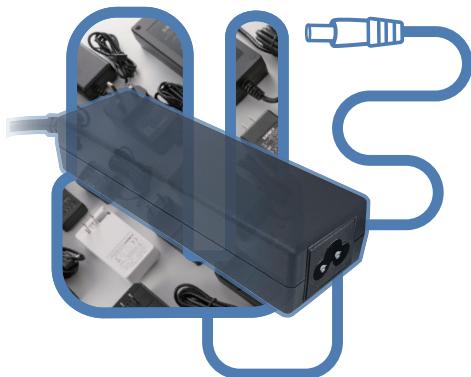
Experienced Team

There are more than thirty years since UNIFIVE established. Experienced research and development team and the most professional service team are undoubtedly advantages of UNIFIVE. We will keep pursuing perfection for our customers.



Product overview

There are many strict requirements of high power supply.

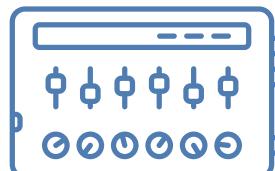
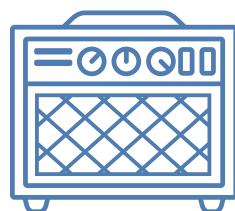
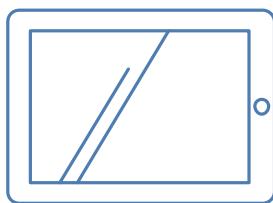


Inlet type can be used for digital signage, PC, LED digital screen, IoT related equipment, lighting equipment, printers, AV equipment, projectors, industrial machines... etc. Complying with **IEC62368-1**, **IEC/EN 60601-1-2 4th**, **IEC61558** and **60335**, moreover meet the requirements of DOE VI standards.

In order to satisfied the diverse requirement from customer, we offer small q' ty of customization and specification adjust based on our standard products. In addition, we also provide the most appropriate solutions for special purposes and special requirements.

Product Usage

In addition to standard usage, there are other application way on PCs, LED digital signage, IoT-related equipment, lighting equipment, printers, AV equipment, projectors, industrial equipment, etc.



Introduction

Wattage: 100W, 120W, 160W, 200W, 300W.

Safety standard: IEC62368-1、IEC/EN 60601-1-2 4th、CB、CE、PSE of IEC61558 and 60335...etc.
(Please refer to the following)

* About more detail of the certification, Please ask our sales team.

The following line-up can support with a variety of modification.
Here are some examples of the modification.

- General AC Adaptor and the ultra-small models with GaN material.
- Possibility to adjust electrolytic capacitor life.
- Possibility of equipped with components such as varistor (depending on the model)
- Corresponds to long lifespan.
- Corresponds to the design of OCP.
- Other special requirements can also be review.

Annotation

Before consulting, we would be grateful if you could provide the information as detailed as possible. (The specifications and special requirements, as well as specific test conditions and methods.)



Charging Optimization

We insist choosing the most appropriate material. What's more, precision resistance, capacitor, and inductance are selected as a crucial part of materials. All we do is to ensure maximum performance and reliability of our product.



Multilayered protection

The home appliances AC/DC adapter circuit is designed with a multilayered protection mechanism to provide more secure power supply protection.



OCP



OVP



OTP



SCP



LPS



EMC

Safety Standard



CTUVUS



UL



PSE



CB



CE



UKCA

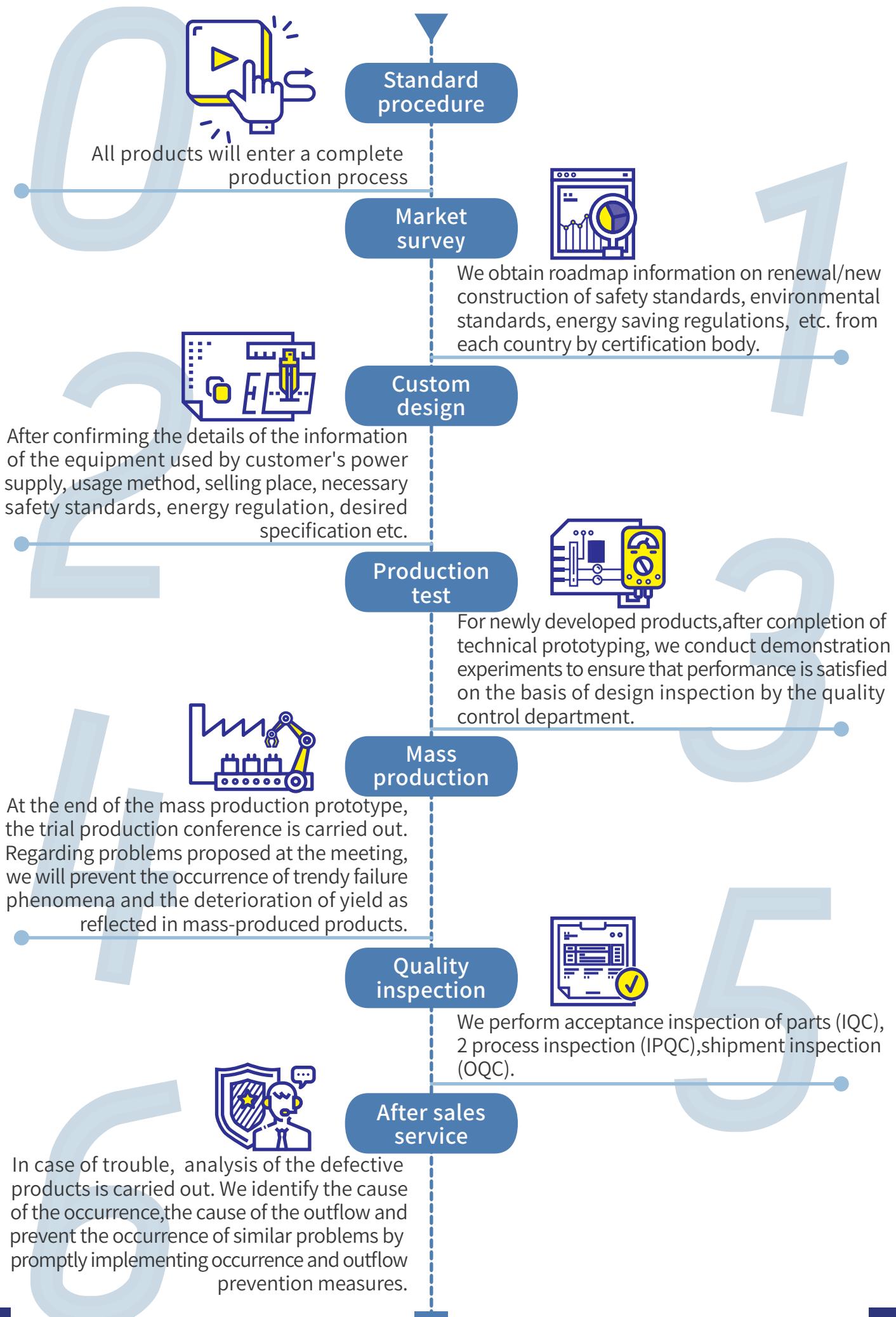


UL

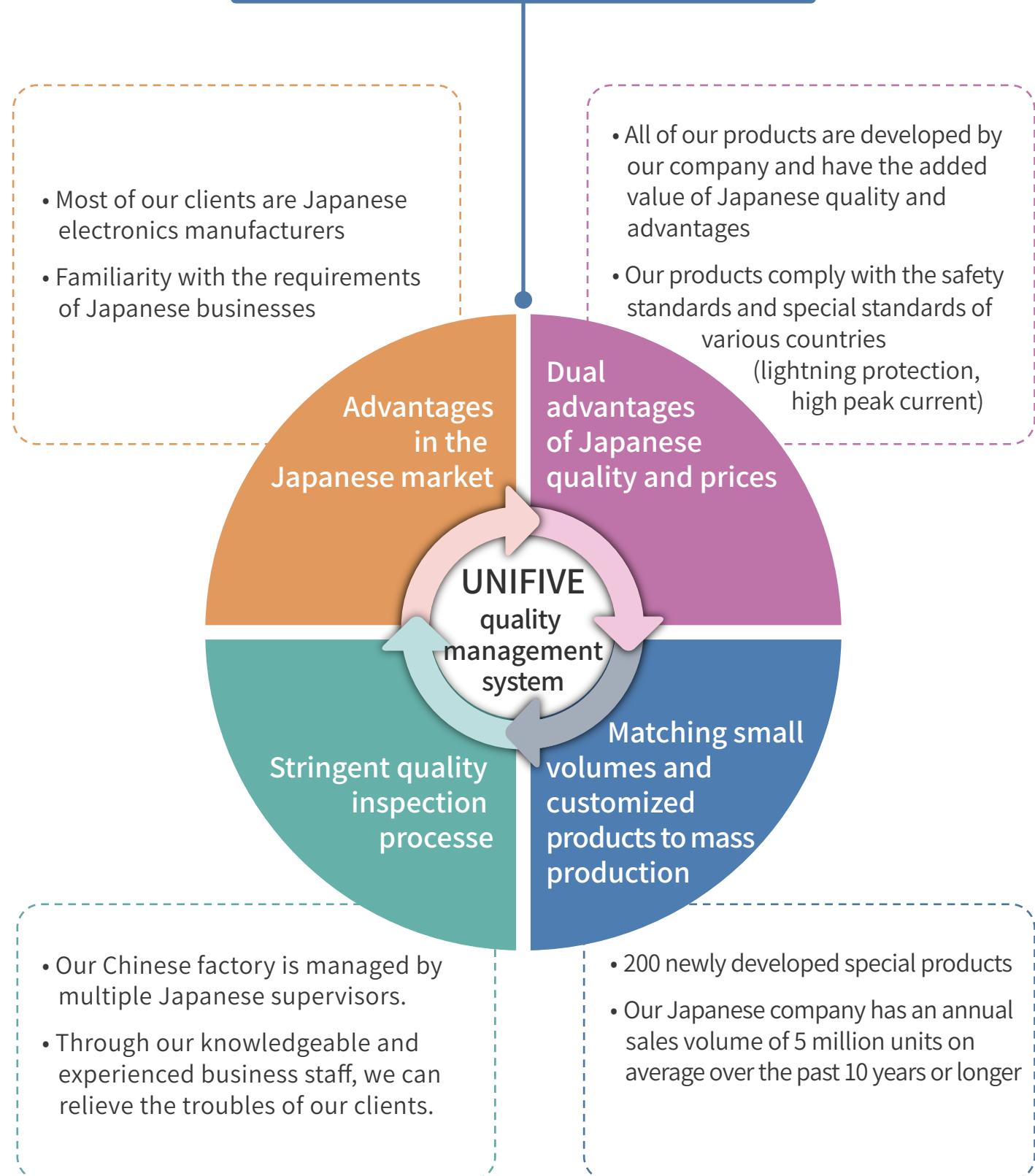


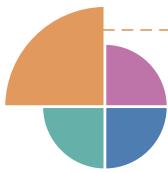
FCC

H O M E



Trade with Japanese clients has increased continuously on our accumulated credibility.





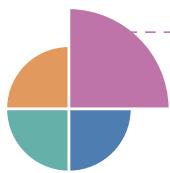
• Advantages in the Japanese market

- **Vast experience**

Since our Japanese headquarters was established in 1989, UNIFIVE has steadily expanded its extensive sales network as a comprehensive manufacturer of AC adapters and switches over 33 years.

- **Market advantages**

Most of our partnering manufacturers are well-known Japanese brands and have the advantage of being familiar with the Japanese market.



• Dual advantages of Japanese quality and prices

- **Top-grade quality**

UNIFIVE upholds quality as our business philosophy.

Through scientific management, we continuously improve our product quality and collect customer feedback, and strive to provide customers with products most suited for them through continuous improvement.

- **Client satisfaction**

We have received praise for the company from various clients for the high quality and excellent services provided by our company.



- **Quality assurance of our Chinese factory**

UNIFIVE's factory has passed ISO quality system certifications and passed various stages of inspection.

- ISO9001:2015
- ISO14001:2015
- Various safety standard certifications





• Matching small volumes and customized products to mass production

• Small minimum order quantity

We have an accurate grasp of diverse market and client needs and can handle small volumes of customized orders with flexibility.

• Customized products

We search through the 1,500 available models from our factory according to product requirements provided by our clients (such as safety standards, design, electrical characteristics, environmental standards, and efficiency) to determine if there are suitable products for them. If not, we then work on customizing the products.

- Semi-customization
- Full customization



We modify our products based on the development records of product specifications (with modules). The closer the specifications required by the client to the specifications of UNIFIVE products, the shorter the expected development duration. In terms of cost, this can reduce development costs compared to the cost of full customization.

Our customized power values can satisfy the various needs of clients, such as electrical characteristics, environmental standards, and efficiency standards, and comply with various safety standard regulations.

• Mass production

After production at small volumes and continuous updates to product quality, we then embark on mass production in accordance with standard processes.



Quality inspection

01 Visual inspection Manual measurement

- IQC IPQC.....etc.
- QC QA.....etc.



02 Electrical performance measurement test

- ICT testing
- Leakage current inspection
- ATE (efficiency/ Ripple Noise / OCP OVP SCP....etc.)



03 Environmental test

- Thermal shock test
- ESD Test
- Surge Test....etc.



04 Mechanical testing

- Vibration Test
- Mechanical Shock
- Push pull test....etc.

Quality inspection

Finished Product



Physical test

- ◆ Bending Test
- ◆ Ball-pressure Test
- ◆ Steel Ball Impact Test
- ◆ Cord/Strain Relief Durability
- ◆ Insertion and Withdrawal Test



Chemical Test

- ◆ ROHS Test
- ◆ Brun-in Test
- ◆ Salt Spray Test



Reliability Test

- ◆ ATE Test
- ◆ Aging Test
- ◆ Noise Test
- ◆ High-pot Test
- ◆ Abnormality Test
- ◆ Blanket Wrapping Test



Mechanical Test

- ◆ Drop Test
- ◆ Stress Test
- ◆ Constant Force Test
- ◆ Vibration(Whole box) Test
- ◆ Drop Test(Single product)
- ◆ Push & Pull Strength Test
- ◆ Push & Pull Strength test (AC Pin)
- ◆ Vibration(Single product) Test



EMC Test

- ◆ EFT Test
- ◆ DIP Test
- ◆ Surge Test
- ◆ Radiation Test
- ◆ Conduction Test
- ◆ Static Electricity Test
- ◆ High Frequency Noise Test



Environment Test

- ◆ Hot & Cold Test
- ◆ High Temperature & Humidity Test
- ◆ Low Temperature Test
- ◆ High Temperature Test

Materials

PCB

- ◆ ROHS Test
- ◆ Dimensions
- ◆ Brun-in Test
- ◆ High Voltage Insulation Impedance Test
- ◆ Copper Foil Tensile Strength Test

MOSFET

- ◆ EMI test
- ◆ ROHS Test
- ◆ Dimensions
- ◆ Turn on voltage test
- ◆ Temperature Rise Test
- ◆ Conductor Resistances
- ◆ DS Breakdown Voltage Test

DIODE

- ◆ EMI test
- ◆ ROHS Test
- ◆ Dimensions
- ◆ Forward Voltage Test
- ◆ Temperature Rise Test

CORD

- ◆ ROHS Test
- ◆ Dimensions
- ◆ Brun-in Test
- ◆ Bending Test
- ◆ Salt Spray Test
- ◆ Split confirmation
- ◆ Cord/Strain Relief Durability
- ◆ Conduction Resistances Test
- ◆ Insertion and Withdrawal Test

CASE

- ◆ ROHS Test
- ◆ Dimensions
- ◆ Brun-in Test
- ◆ Salt Spray Test
- ◆ Ball-pressure Test
- ◆ Steel Ball Impact Test

TRANSFORMER

- ◆ EMI test
- ◆ DCR Test
- ◆ ROHS Test
- ◆ Q-value Test
- ◆ Dimensions
- ◆ Split confirmation
- ◆ Temperature Rise Test
- ◆ Electrical Inductor Test
- ◆ High Voltage Insulation Impedance Test
- ◆ Leakage Inductance Test

E-CAP

- ◆ Life Test
- ◆ ROHS Test
- ◆ Dimensions
- ◆ Pull Force Test
- ◆ Leakage Current Test
- ◆ Temperature Rise Test
- ◆ Capacity and Loss Test
- ◆ Withstand Voltage Test
- ◆ Equivalent Resistance Test

2025

Safe, Eco-Friendly, Efficient

New Product

- ✓ GaN Design
- ✓ High Efficiency
- ✓ Size Reduction
- ✓ High Frequency

UNDGC3120

160.0*54.0*32.5mm



120W



MEET

- PSE
- CE
- UKCA
- FCC
- 62368-1

EFFICIENCY

- DOE VI

WORKING TEMPERATURE

- ▶ 0°C~40°C

DC OUTPUT

- 24V/5.0A

200W

UNDGC3200



160.0*54.0*32.5mm



MEET

- PSE
- CE
- UKCA
- FCC
- 62368-1

EFFICIENCY

- DOE VI

WORKING TEMPERATURE

- ▶ 0°C~40°C

DC OUTPUT

- 24V/7.8A
- 48V/4.16A

Typical model

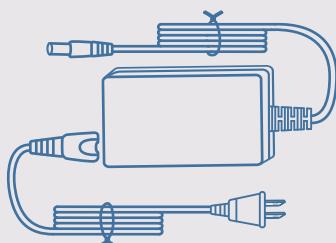
Safety

Not all the products possess the safety standards below.
Please contact us for further information, even customization.

Power Rating	Input Voltage	Output Voltage
100W-300W	90V-264V	5V-54.6V

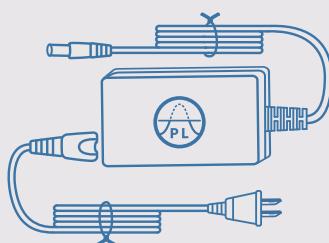


Desktop



100W ~ 300W

Peak Load



120W

Desktop type



IEC 320 C8



IEC 320 C6



IEC 320 C14



IEC 320 C18

100W

UNx3100

Output 24V



24V/4.167A



- High Efficiency
- Stability

160.0*57.5*37.7mm



UNI

UNB

100W

UMx3100

Output 24V



24V/4.167A



- High Efficiency
- Stability

160.0*57.5*37.7mm



UMI

UMB

100W

UNDGx3100

Output 5V-20V



Qualcomm quick charge 4+



5V/3.0A or 9V/3.0A or
12V/3.0A or 15V/3.0A or
20V/5.0A

- Stability
- USB PD
- USB-PD port(receptacle) type is also available.

136.5*57.0*34.0mm



UNDGI

UNDGB

120W

UEC3120

Output 12V-24V



12V/10.0A or 15V/8.0A or
19V/6.3A or 20V/6.0A or
24V/5.0A



- High Efficiency
- Stability

174.7*72.3*35.1mm



UEC

Electromagnetic Compatibility



Power Factor Correction



Gallium Nitride Mosfet



Inrush Current



Peak Load



SMART Charging



Charging



Miniaturization

120W

UNDGC3120

Output 24V



24V/5.0A



- High Efficiency
- Stability

160.0*54.0*32.5mm



UNDGC

120W

UNDEX3120

Output 13.6V-54.6V

B Series

13.6V/8.8A or 27.2V/4.4A or
42.0V/3.0A or 54.6V/2.2A

- High Efficiency
- Stability
- Lithium battery charging

174.7*72.3*35.1mm



UNDEC



UNDET

120W

UHDET3120

Output 12V-24V

12V/10.0A or 15V/8.0A or
19V/6.3A or 24V/5.0A

- High Efficiency
- Stability

174.7*72.3*35.1mm



UHDET

160W

UIDDX3160

Output 12V-24V

12V/11.67A or 15V/9.3A or
20V/8.0A or 24V/6.67A

- High Efficiency
- Stability

174.7*72.3*35.1mm



UIDDC



UIDDT

120W

UNDEX3120

Output 12V-24V

P Series

12V/10.0A or 15V/8.0A or
19V/6.3A or 24V/5.0A

- High Efficiency
- Stability
- Peak Load 5 Sec. Function



UNDEC



UNDET

174.7*72.3*35.1mm

120W

UMDEC3120

Output 12V-24V

12V/10.0A or 15V/8.0A or
19V/6.3A or 24V/5.0A

- High Efficiency
- Stability



UMDEC

174.7*72.3*35.1mm

120W

UHDET3120

Output 12V-24V

P Series

12V/10.0A or 15V/8.0A or
19V/6.3A or 24V/5.0A

- High Efficiency
- Stability
- Peak Load 5 Sec. Function



UHDET

174.7*72.3*35.1mm

160W

UNDGX3160

Output 12V-48V

12V/12.5A or 19V/8.42A or
24V/6.66A or 48V/3.33A

- High Efficiency
- Stability



UNDGI

UNDGB

UNDGC

UNDGT

160.0*54.0*32.5mm

Electromagnetic
CompatibilityPower
Factor
CorrectionGallium
Nitride MosfetInrush
CurrentPeak
LoadSMART
Charging

Charging



Miniaturization

200W**UNDE3200****Output 12V-54V**

12V/15.0A or 19V/10.52A or
24V/8.33A or 48V/4.16A or
54V/3.7A



- High Efficiency
- Stability

208.0*106.0*46.0mm



UNDEC

UNDET

200W**UNDGC3200****Output 24V-48V**

24V/7.8A or 48V/4.16A



- High Efficiency
- Stability



UNDGC

160.0*54.0*32.5mm

200W**UNDMC3200****Output 42V**

42V/4.6A



- High Efficiency
- Stability

160.0*54.0*32.5mm



UNDMC

200W**UNDCC3200****Output 42V-50.4V**

42V/4.6A or 50.4V/4.0A



- High Efficiency
- Stability

160.0*54.0*32.5mm



UNDCC

300W**UNDE3300****Output 24V**

24V/12.5A



- High Efficiency
- Stability

254.0*117.0*47.0mm



UNDEC

UNDET

More information please check on our website.

Electromagnetic
CompatibilityPower
Factor
CorrectionGallium
Nitride MosfetInrush
CurrentPeak
LoadSMART
Charging

Charging



Miniaturization

High Power AC/DC Adaptor

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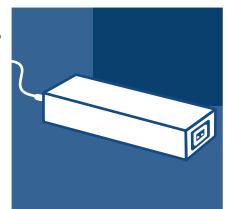
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UNIFIVE