

PD & USB AC/DC Adapter



- High efficiency
- Miniaturisation
- Weight saving

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OUR PRINCIPLE



SAFE



ECO-FRIENDLY



EFFICIENT



About UNIFIVE

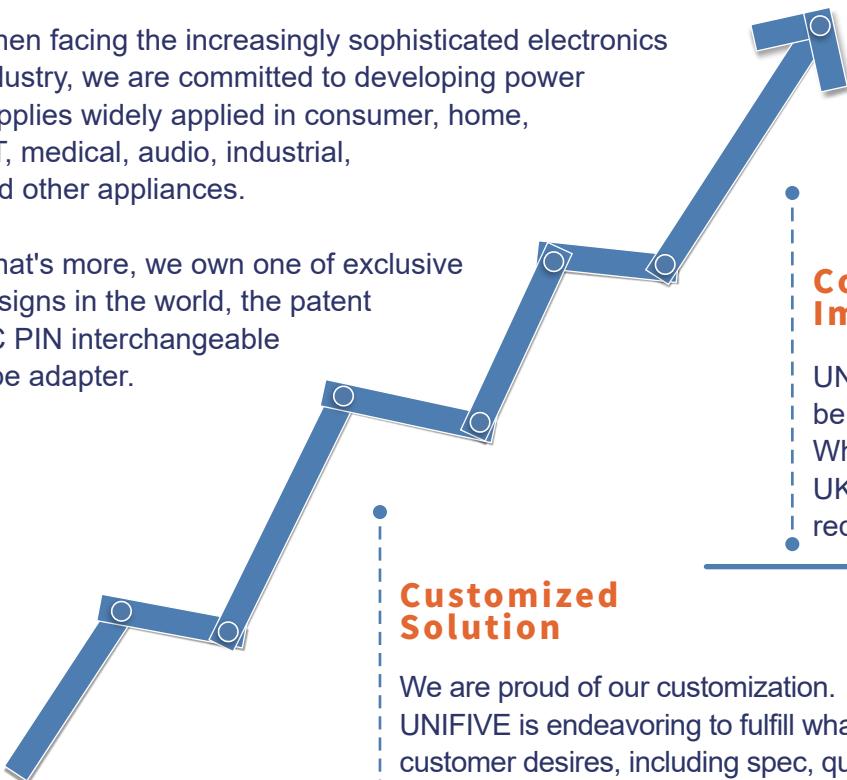
Since 1989, UNIFIVE has been known for its "high quality and high reliability" in the market of AC/DC power supplies (Adapter and Open Frame etc.).



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.



USB power delivery

USB PD is a new power delivery specification that provides higher-level USB-C transmission functions.



In the past, different charging interfaces were used for different mobile devices such as laptops and cell phones. As a result, all the chargers on the market were not compatible across brands, causing waste and environmental problems as devices became obsolete.

Therefore, the USB-IF Association has been promoting Power Delivery (PD) charging based on USB. The most known ones are the Macbook 12-inch and Zenbook 3, both of which use the **USB PD** protocol and USB **Type-C** interface for charging.

USB Power Delivery not only provides a charging rate of up to 100 watts, but also shortens charging time. It has more flexible transmission performance to cover everything from cell phones, digital cameras, mobile devices, external storage peripherals, laptops, AIO All-in-One PC, and monitors, allowing both charging and data transmission to be done with a single cable.

USB-PD, Things to prepare



Devices

Smart phones, tablets, other devices with PD function.



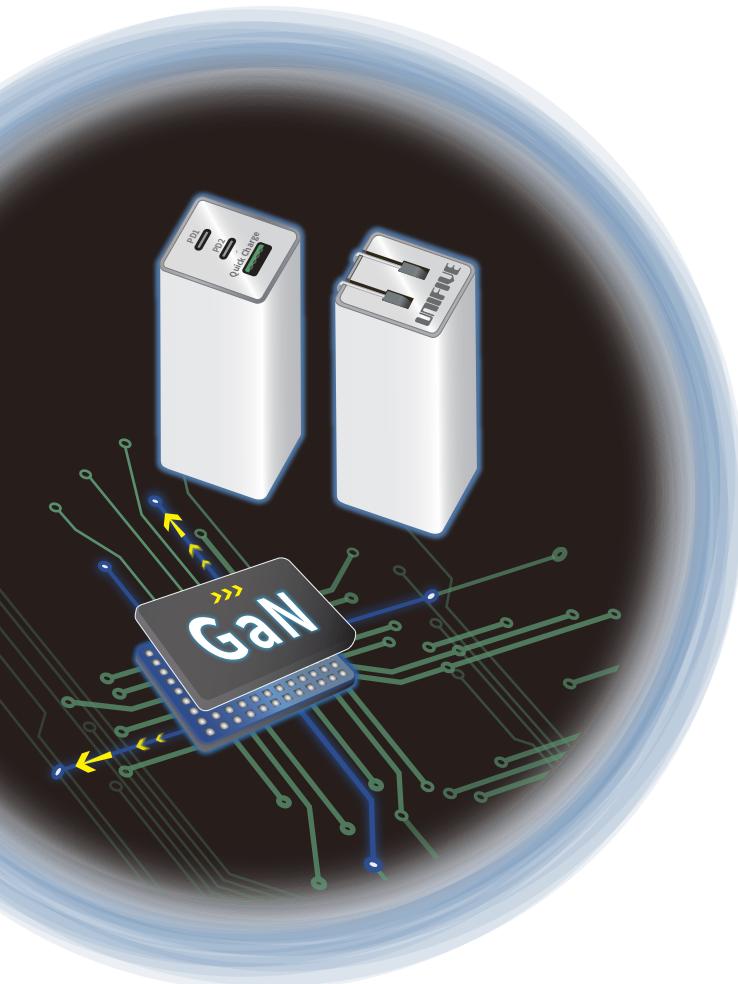
Cable

USB-C cables



USB-C charger

Wall mount or car charger with USB PD function



GaN design

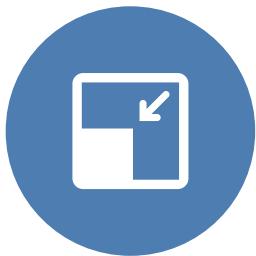
Gallium Nitride (**GaN**) power component is the latest type of semiconductor material.

Gallium nitride is one of the third-generation semiconductor materials.

Compared with traditional silicon chargers, GaN has the advantage of being **small in size**, **light in weight**, **non-scalding** and **highly efficient**. It is also a development indicator for future high-efficiency chargers.

With the support of the gallium nitride semiconductor, the USB PD charger developed by UNIFIVE is moving towards the latest specifications **PD3.0, QC4+**. The volume is approximately 50% less than that of a standard travel charger for general notebook computers, allowing you to carry it in your pocket every day or during travels.

UNIFIVE USB-PD



Downsizing

50% smaller in size



Weight saving

50% weight reduction



High efficiency

3 times charging speed

USB - PD

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 USB PD circuit is designed with a multilayered protection mechanism to provide more secure power supply protection.



OCP



OVP



OTP



SCP



LPS



EMC

Safety standard



UL



PSE



BSMI



CB



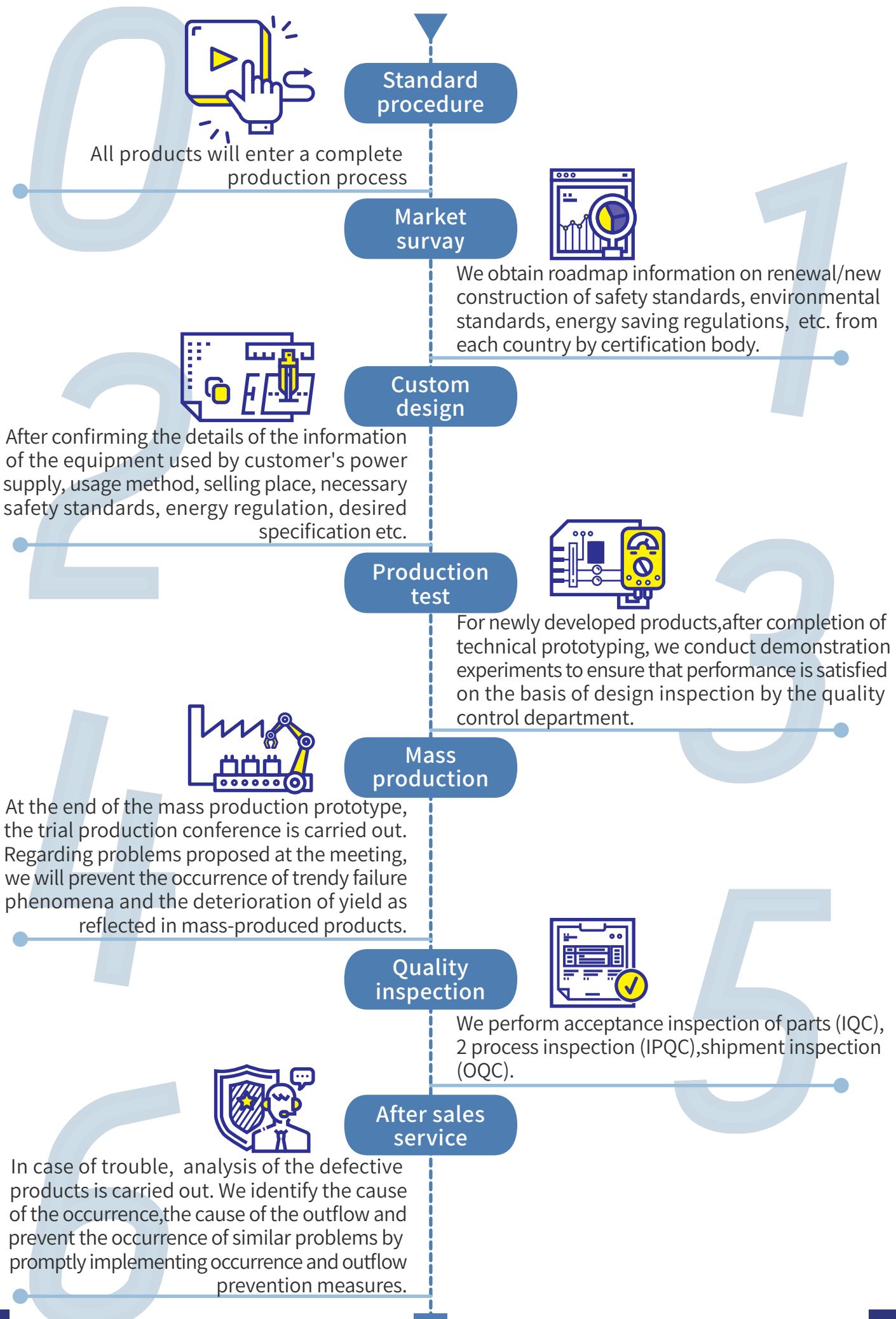
CE



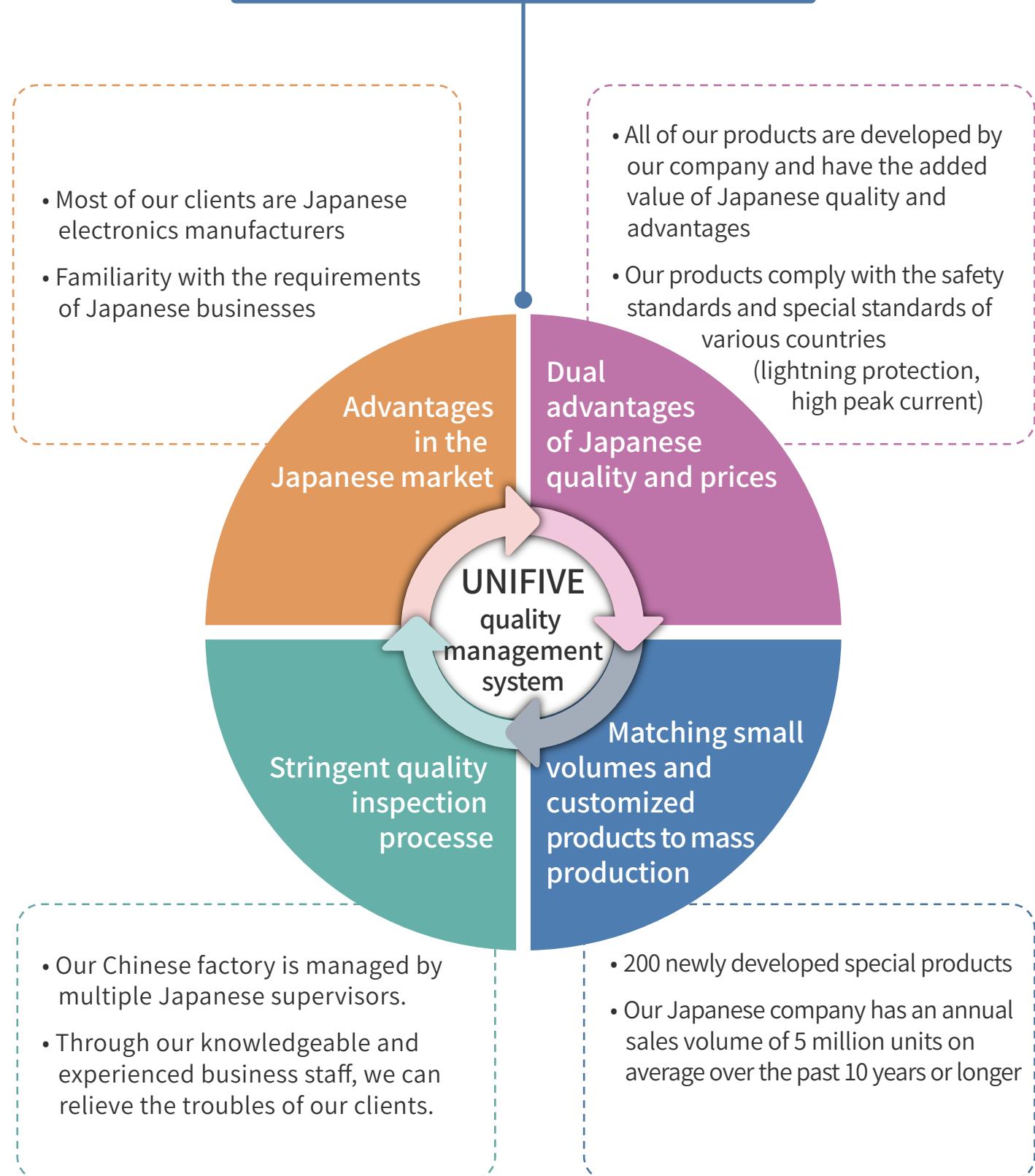
FCC

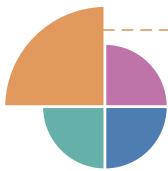


USB - PD



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

✓ Compact Size
✓ OVP✓ Stability
✓ OCP✓ Customized Design
✓ OTP
✓ SCP

UMVBxN3010

10W

69.5*31.0*43.5mm

**MEDICAL SPECIFICATION**

- IEC/EN 60601-1-2 4th Ed

MEET

- PSE
- CE
- UKCA
- FCC

EFFICIENCY

- DOE VI

WORKING TEMPERATURE

- 0°C~40°C

DC OUTPUT

- 5V / 1.5A
- 5V / 2.0A

————— more information on next page —————

Typical model

Power Rating	Input Voltage	Output Voltage
5W-100W	90V-264V	5V-20V

Safety

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

USB Charger

USB PD Charger



2.5W



4.5W



7.5W



15W



36W



60W



100W

5W

UYx305

Output 5V

5W

UNUBx3005

Output 5V



5V/0.5A or 5V/1.0A or 5V/1.2A



- Low cost
- USB-A
- Customized AC PIN base on different countries .

59.0*28.0*37.6mm



5V/0.5A or 5V/1.0A



- Ultra small size
- USB-A
- Customized AC PIN base on different countries .

42.1*34.7*22.0mm

5W

UNXBx3005

Output 5V

5W

UNWBU3005

Output 5V



5V/0.5A or 5V/1.0A



- Ultra small size
- USB-A
- Four direction
- AC Pin Interchangeable

72.9*38.9*17.4mm



5V/0.5A or 5V/1.0A



- Ultra small size
- USB-A
- Foldable AC Plug

52.6*38.8*17.5mm

6W

UNUBx3006

Output 5V



5V/0.5A or 5V/1.0A



- Ultra small size
- Low cost
- USB-A

44.0*38.0*24.0mm

6W

UMBx305

Output 5V



5V/0.5A or 5V/0.8A or
5V/1.0A or 5V/1.2A



- USB-A
- Stability
- Ultra small size
- Customized AC PIN base on different countries .

59.0*28.0*37.6mm

6W

UHBx305

Output 5V



5V/0.5A or 5V/0.8A or
5V/1.0A or 5V/1.2A



- USB-A
- Stability
- Ultra small size
- Customized AC PIN base on different countries .

59.0*28.0*37.6mm

10W

UMVBxN3010

Output 5V



5V/1.5A or 5V/2.0A



- USB-A
- Stability
- Ultra small size
- Customized AC PIN base on different countries .

59.0*28.0*37.6mm

10W

UYx313

Output 5V-5.3V



5V/1.5A or 5V/2.0A or 5.3V/1.5A



- Ultra small size
- Low cost
- USB-A
- Customized AC PIN base on different countries .

59.0*28.0*37.6mm

10W

UNWBU3010

Output 5V



5V/2.0A or 5V/2.1A



- Ultra small size
- USB-A
- Foldable AC Plug

53.3*38.0*21.8mm

10W

UWB310-USB2

Output 5V



5V/2.0A or 5V/2.1A



- USB-A 2Ports
- Ultra small size
- Foldable AC Plug

59.8*38.0*22.5mm

10W

UNUBx3010

Output 5V



5V/1.5A or 5V/2.0A or 5V/2.4A



- Ultra small size
- Low cost
- USB-A

44.0*38.0*24.0mm

10W
UBX310
Output 5V-5.35V
12W
UNXBX3012
Output 5V-5.3V

5V/2.0A or 5V/2.1A or 5.35V/2.0A


- Ultra small size
- USB-A
- Four direction
- AC Pin Interchangeable

73.2*39.1*23.2mm


5V/0.5A or 5V/1.0A or 5V/1.5A or 5V/2.0A or 5V/2.1A or 5.3V/0.5A or 5.3V/1.0A or 5.3V/1.5A


- Ultra small size
- USB-A
- AC Pin Interchangeable

62.0*35.0*59.0mm

24W
UNWEU3024-USB4
Output 5V

5V/4.8A


- USB-A 4Ports
- Ultra small size
- Foldable AC Plug

91.3*48.9*27.8mm

•————— more information on next page —————•

18W

UNWCU3018

Output max 12V



USB CHARGER 18W



Qualcomm quick charge 4+

USB-C (PD)

5V/3.0A or 9V/2.0A or 12V/1.5A

USB-A (Quick Charge)

5V/3.0A or 9V/2.0A or 12V/1.5A

USB-C + USB-A: 5V 3.0Amax



- USB PD 3.0
- USB-C + USB-A
- Foldable AC Plug

50.0*28.0*47.5mm

30W

UIWCU3030

Output max 20V



USB CHARGER 30W



USB-C (PD)

5V/3.0A or 9V/3.0A or 12V/2.5A

15V/2.0A or 20V/1.5A



- USB-C
- USB PD 3.0
- Foldable AC Plug

68.0*30.0*50.0mm

45W

UIWC3045

Output max 20V

USB CHARGER 45W



USB-C (PD)

5V/3.0A or 9V/3.0A or 12V/3.0A

15V/3.0A or 20V/2.25A



- USB-C
- USB PD 3.0
- Foldable AC Plug

72.0*35.0*54.0mm

65W

UNWGU3065

Output max 20V

USB CHARGER 65W

USB CHARGER 65W



USB-C1 (PD)

5V/3.0A or 9V/3.0A or 12V/3.0A

15V/3.0A or 20V/3.25A

USB-C2 (PD)

5V/3.0A or 9V/2.0A or 12V/1.5A

USB-A (Quick Charge)

5V/3.0A or 9V/2.0A or 12V/1.5A



- USB PD 3.0
- USB-C 2Ports + USB-A
- Foldable AC Plug

75.0*36.0*32.0mm

18W

UNVUx3018

Output 5V-15V

USB CHARGER 18W



Qualcomm quick charge 4+



USB-C (PD)

5V/3.0A or 9V/2.0A or 12V/1.5A

USB-C (PD)

5V/3.0A or 9V/2.0A or 12V/1.5A

15V/1.2A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

70.0*35.0*48.0mm

18W

UMVUx3018

Output 5V-15V

USB CHARGER 18W



Qualcomm quick charge 4+



USB-C (PD)

5V/3.0A or 9V/2.0A or 12V/1.5A

USB-C (PD)

5V/3.0A or 9V/2.0A or 12V/1.5A

15V/1.2A



- USB-C
- USB PD 3.0
- 2xMOPP
- USB-PD port(receptacle) type is also available.

70.0*35.0*48.0mm

18W



UHVUx3018



Output 5V-15V



USB-C (PD)
5V/3.0A or 9V/2.0A or 12V/1.5A
USB-C (PD)
5V/3.0A or 9V/2.0A or 12V/1.5A
15V/1.2A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

70.0*35.0*48.0mm

30W



UNVUx3030

Output 5V-20V



5V/3.0A or 9V/3.0A or
12V/2.5A or 15V/2.0A or
20V/1.5A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

72.7*35.7*53.0mm

27W



UNVUx3027

Output 5.1V-15V



5.1V/5.0A or 9V/3.0A or
12V/2.25A or 15V/1.8A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

72.7*35.7*53.0mm

30W



UNVUx3030

Output 5V-20V



5V/3.0A or 9V/3.0A or
12V/2.5A or 15V/2.0A or
20V/1.5A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

72.7*35.7*53.0mm

30W



UMVUx3030 CB

Output 5V-20V



5V/3.0A or 9V/3.0A or
12V/2.5A or 15V/2.0A or
20V/1.5A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

72.7*35.7*53.0mm

30W

UHVUx3030 CB

Output 5V-20V



5V/3.0A or 9V/3.0A or
12V/2.5A or 15V/2.0A or
20V/1.5A



- USB-C
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

72.7*35.7*53.0mm

45W



UNDGI3045

Output 5V-20V



5V/3.0A or 9V/3.0A or
12V/3.0A or 15V/3.0A or
20V/2.25A



- Stability
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

98.5*46.8*32.1mm

30W+30W

UIDC3060

Output max 20V



USB-C (PD) (Total 30W max)
5V/3.0A or 9V/3.0A or 12V/2.5A
15V/2.0A or 20V/1.5A

USB-A (Total 30W max)
5V/6.0A (2.4A max per Port)



- USB PD 3.0
- USB-C + USB-A 4Ports

101.0*71.0*28.0mm

65W



UNDGI3065

Output 5V-20V



5V/3.0A or 9V/3.0A or
12V/3.0A or 15V/3.0A or
20V/3.25A



- Stability
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

113.5*54.0*36.3mm

100W

UNDGx3100

Output 5V-20V



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



- Stability
- USB PD 3.0
- USB-PD port(receptacle) type is also available.

136.5*57.0*34.0mm



More information please check on our website.

PD & USB AC/DC Adapter

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