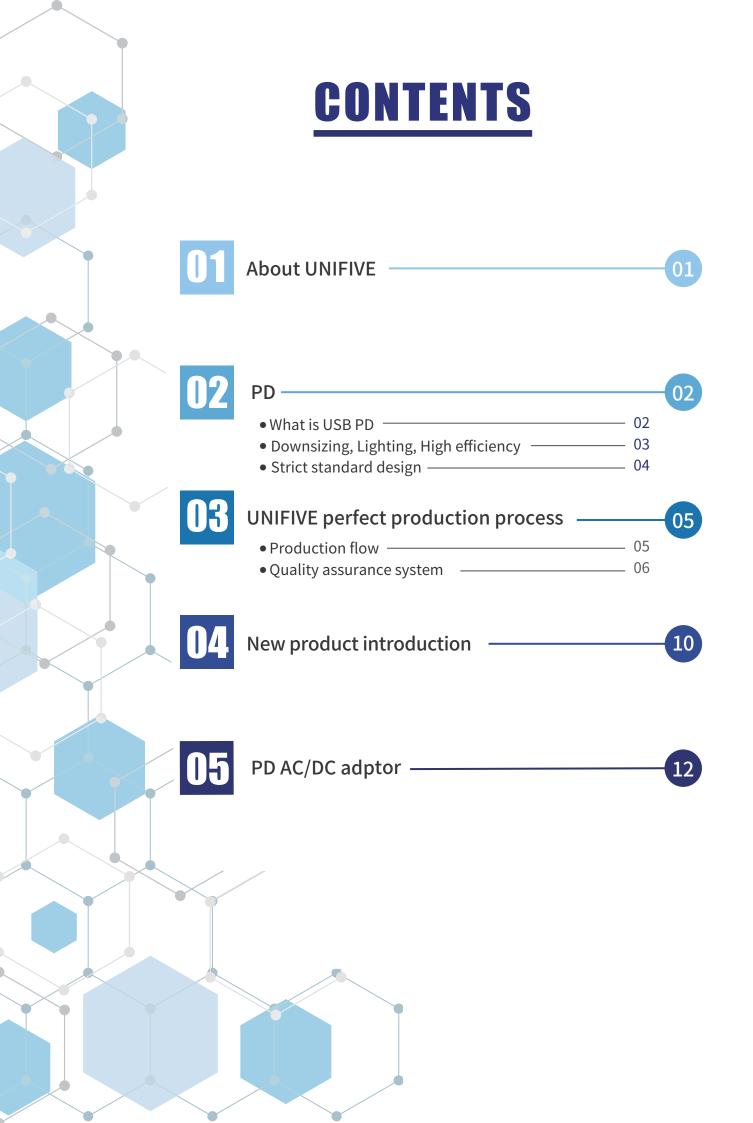


PDAC/DC Adapter



- High efficiency
- Minituarisartion
- Weight saving



OUR PRINCIPLE







ECO-FRIENDLY







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.).

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

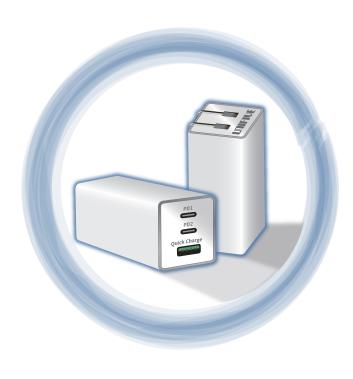
We are proud of our customization. UNIFIVE is endeavoring to fulfill what customer desires, including spec, quality, various regulations, and all kinds of special request.



Experienced

There are more than thirty years since UNIFIVE established. Experienced research and development team and the most professional service team are undoubted 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 become 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.



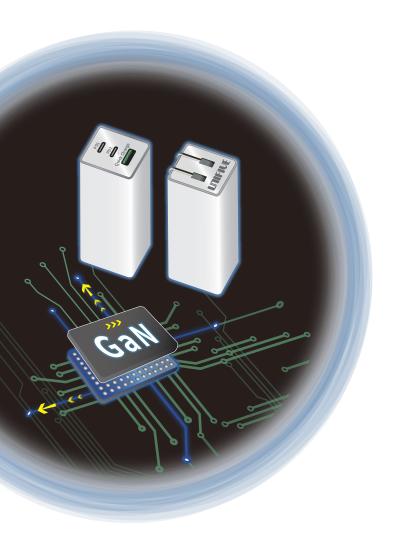
Cable

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



Charging Optimization

We insist choosing the most appropriate material. What's more, precision resistance, capasitor, 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.













Safety standard



UL



PSE



CB













All products will enter a complete production process

Market survey



We obtain roadmap information on renewal/new construction of safety standards, environmental standards, energy saving regulations, etc. from each country by certification body.

6 E

Custom design

After confirming the details of the information of the equipment used by customer's power supply, usage method, selling place, necessary safety standards, energy regulation, desired specification etc.

Production test



For newly developed products, after completion of technical prototyping, we conduct demonstration experiments to ensure that performance is satisfied on the basis of design inspection by the quality control department.



Mass production

At the end of the mass production prototype, the trial production conference is carried out. Regarding problems proposed at the meeting, we will prevent the occurrence of trendy failure phenomena and the deterioration of yield as reflected in mass-produced products.

Quality inspection



We perform acceptance inspection of parts (IQC), 2 process inspection (IPQC), shipment inspection (OQC).



After sales service

In case of trouble, analysis of the defective products is carried out. We identify the cause of the occurrence, the cause of the outflow and prevent the occurrence of similar problems by promptly implementing occurrence and outflow prevention measures.

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

- Most of our clients are Japanese electronics manufacturers
- Familiarity with the requirements of Japanese businesses

Advantages in the Japanese market

- All of our products are developed by our company and have the added value of Japanese quality and advantages
- Our products comply with the safety standards and special standards of various countries

Dual (lightning protection, advantages high peak current) of Japanese

UNIFIVE

quality management system

Stringent quality inspection processe

Matching small volumes and customized products to mass production

quality and prices

- Our Chinese factory is managed by multiple Japanese supervisors.
- Through our knowledgeable and experienced business staff, we can relieve the troubles of our clients.

- 200 newly developed special products
- Our Japanese company has an annual sales volume of 5 million units on average over the past 10 years or longer



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

UNIFIVEs 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 fromour 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



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, nd 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



Visual inspection Manual measurement

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







Electrical performance measurement test

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







Environmental test

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

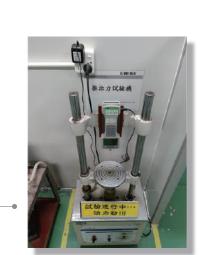




- Vibration Test
- Mechanical Shock

Mechanical testing

• Push pull test....etc.





New Product

Small Size

d Charging

d Customized Design

OCP

⊘ SCP

UNDGI3045

98.5*46.8*32.1mm





USB-C(With Cable)

SUPPORT

PD PPS QC Apple Mode

MEET

- PSE - CE - UKCA - FCC

62368

EFFICIENCY

DOE VI

WORKING TEMPERATURE

▶ 0°C~40°C

OUTPUT

5V/3.0A

9V/3.0A

-12V/3.0A

-15V/3.0A - 20V/2.25A





UNDGI3065

113.5*54.0*36.3mm

USB-C(With Cable)

SUPPORT

PD PPS QC Apple Mode

MEET

UL PSE CB CE UKCA FCC

62368-1

EFFICIENCY

DOE VI

WORKING TEMPERATURE

▶ 0°C~40°C

OUTPUT

5V/3.0A

9V/3.0A

- 12V/3.0A

■ 15V/3.0A

- 20V/3.25A









New Product





d Customized Design





UNDGx3100

136.5*57.0*34.0mm





USB-C(With Cable)

SUPPORT

PD PPS QC Apple Mode

MEET

- PSE - CE -UKCA -FCC
- **62368**

EFFICIENCY

DOE VI

WORKING TEMPERATURE

▶ 0°C~40°C

OUTPUT

- 5V/3.0A ■ 15V/3.0A
 - -20V/5.0A

9V/3.0A 12V/3.0A

more information on next page -





Typical model

Power	Input	Output
Rating	Voltage	Voltage
18W-100W	90V-264V	5V-20V

Safety

















PD Charger







36W



60W





UNWCU3018

Output max 12V





USB-C (PD)

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



Output max 20V





USB-C (PD)

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





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

68.0*30.0*50.0mm

UIWC3045

Output max 20V





USB-C (PD)

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











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

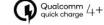
72.0*35.0*54.0mm

65W

UNWGU3065

Output max 20V





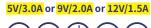




USB-C1 (PD)

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

USB-A (Quick Charge)









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

75.0*36.0*32.0mm

















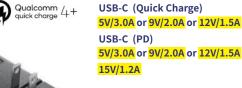


UNVUx3018

Output max 15V











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

70.0*35.0*48.0mm

18W



UMVUx3018

Output max 15V







USB-C (PD)



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

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



USB-C (Quick Charge)

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

70.0*35.0*48.0mm

18W

UHVUx3018

Output max 15V





USB-C (Quick Charge) 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 port(receptacle) type is also available.

70.0*35.0*48.0mm

UNVUx3027

Output 5.1V-15V





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



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

72.7*35.7*53.0mm

UNVUx3030

Output 5V-20V





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









- USB PD 3.0
- Ultra small size
- USB-PD port(receptacle) type is also available.

72.7*35.7*53.0mm

UMVUx3030

Output 5V-20V





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









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

72.7*35.7*53.0mm

30W

UHVUx3030

Output 5V-20V





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





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

72.7*35.7*53.0mm

30W+30W

UIDC3060

Output max 20V





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

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









USB-C + USB-A 4Ports

101.0*71.0*28.0mm





















45W

UNDGI3045

Output 5V-20V







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



- USB PD
- Ultra small size
- USB-PD port(receptacle) type is also available.

98.5*46.8*32.1mm

65W

UNDGI3065

Output 5V-20V







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









- USB PD
- Ultra small size
- USB-PD port(receptacle) type is also available.

113.5*54.0*36.3mm

100W

UNDGx3100

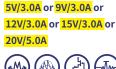
Output 5V-20V



UNDGI

UNDGB















- USB PD
- Ultra small size
- USB-PD port(receptacle) type is also available.

136.5*57.0*34.0mm

More information please check on our website.













PD AC/DC Adapter

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