GaN POWER SUPPLY MANUFACTURE & DESIGN

PROFESSIONAL OEM/ODM/JDM

Company Overview



Shenzhen Huikeyuan Co.,Ltd

深圳匯科源電子科技有限公司

Cathedy Gmbh(德國)

- **GB/T 24001-2016 idt ISO 14001:2015** (Environmental Management System)
- **GB/T 45001-2020 idt ISO 45001:2018** (Occupational Health and Safety Management System)
- **GB/T 39604-2020** (Social Responsibility Management System)
- **ISO 9001:2015** (Quality Management System)
- **ISO 13485:2016** (Quality Management System for Medical Devices)
- **IECQ QC 080000:2017** (Hazardous Substance Process Control)
- **EcoVadis Certification**

+ Customizable Certification

OEM ODM
15W TO 600W
EMS MANUFACTURER


Shenzhen


Huizhou


Germany

深圳市汇科源电子科技有限公司成立于2013年，是一家专业从事智能电源适配器研发、生产、销售的国家级高新技术企业。公司在深圳和惠州设有生产基地，并在德国汉堡设有分公司。德国分公司于2016年成立并设有仓库，主要是为欧洲客户提供快速发货的服务。惠州工厂于2022年成立，目前主要是负责注塑，线材和一部分电源的生产。我们的产品涵盖医疗设备、通信POE系统、AI服务器、视频会议设备金融POS设备、健身设备、AI笔记本电脑、工业电脑、无人机、手持游戏机、智能家居等各个行业的应用。我们根据您的需求提供非常规的解决方案。我们的产品有UL/ETL/FCC/CB/TUVGS/CE/UKCA/KCC/KCC/PSESAA/RCM/CCC等安全标准，并且已通过GB/T 24001-2016 idt, ISO 14001:2015环境管理体系，GB/T 45001-2020 idt, ISO 45001:2018职业健康安全管理体系，GB/T 39604-2020社会责任管理体系，ISO 9001:2015质量管理体系，ISO 13485:2016医疗器械质量管理体系，IECQ QC 080000:2017有害物质管控和欧洲EcoVadis认证，产品提供了长达五年质保的服务，提供最灵活的MOQ方式以及多种付款模式。合作共赢是公司与客户合作的目标，HKY为您提供最佳的电源解决方案。

Shenzhen Huikeyuan Co., Ltd., established in 2013, is a National High-Tech Enterprise specializing in the R&D, production, and sales of intelligent power adapters.

The company operates production bases in Shenzhen and Huizhou, and maintains a subsidiary in Hamburg, Germany. Founded in 2016, the German subsidiary includes a warehouse primarily dedicated to providing fast delivery services for European customers. The Huizhou factory, established in 2022, currently focuses on plastic injection molding, cable assembly, and the production of a portion of power supplies.

Our products serve a wide range of industries, covering applications such as: Medical Equipment,Communication POE Systems, AI Servers, Video Conferencing Equipment,Financial POS Equipment,Fitness Equipment, AI Laptops, Industrial Computers,Drones,Handheld Gaming Devices, Smart Home Systems, etc. We deliver customized solutions tailored to your specific requirements. Our products meet numerous international safety standards, including UL/ETL/FCC/CB/TUV GS/CE/UKCA/KCC/PSE/SAA/RCM/CCC. Furthermore, we are certified to the following management system standards:

- GB/T 24001-2016 idt ISO 14001:2015 (Environmental Management System)
- GB/T 45001-2020 idt ISO 45001:2018 (Occupational Health and Safety Management System)
- GB/T 39604-2020 (Social Responsibility Management System)
- ISO 9001:2015 (Quality Management System)
- ISO 13485:2016 (Quality Management System for Medical Devices)
- IECQ QC 080000:2017 (Hazardous Substance Process Control)
- EcoVadis Certification

We provide an industry-leading 5-year warranty on our products, offering the most flexibleMOQ (Minimum Order Quantity) options and multiple payment methods.

Win-win cooperation is the cornerstone of our client partnerships. HKY is committed to delivering the optimal power solutions for your needs.

GaN-PD240W PSU





Products

HKY started in 2013 as a manufacturer of safer and more energy-efficient power adapters





PROCESS



1.GaN Medical Grade PSU:
45W 65W 100W 140W, 240W IEC/EN 60601 ROHS Certified. Provide professional adapter solutions for medical equipment to ensure stable operation and promote the development of the medical industry

2. Industrial power adapter
Switching Power supply 40W~600W
USB-C 45W/65W/100W/140W/ 240W designed for Office Electronics, Rugged Tablet, Panel PC, Network Communications, AV products, POS Terminals, Electrical Tools, E-Bike, E-Scooters, IPC, Mini PC, Server, etc.

3.DC Adapter: 12-24VDC 65W-156W ideal for automotive/portable applications
For 12V Cars, 24V Trucks, Medical Devices, AV products,Travel Trailer, RV, Buses, SUV, ATV, Van, Boat, Airplane, Power Station, Campers, Motorcycles, etc.

4.Consumer GaN Charger
For laptop, smartphone, tablet and other consumer electronics.

GaN-PD240W PSU



Category	Brand	Product Name
Notebook	Framework	Framework Laptop 16 2025
Desktop AI Workstation	Acer	Veriton GN100 AI Mini Workstation
	DELL	Dell Pro Max with GB10
	Gigabyte	AI TOP ATOM
	Lenovo	ThinkStation PGX
	MSI	EdgeXpert
	NVIDIA	NVIDIA DGX Spark

- Model: A180-PD240W-C14
- Adopts the latest GaN circuit structure.
- Built with Cypress PD3.1 chips to guarantee consistent production quality
- EPR Capable, supporting AVS 15-48V 240W
- Input: 100-240VAC, 50/60Hz, 3A Max
- Output: 5V5A, 9V5A, 12V5A, 15V5A, 20V5A, 28V5A, 36V5A, 48V5A
- Compliant with multiple standards :
- IEC 62368 standard (ITE equipment)
- IEC 60601 (medical devices)
- IEC 60335 standard(household appliance)
- Equipped with a C14 AC inlet design, ensuring maximum safety
- Safety Certifications: ETL, FCC, CE, UKCA, PSE, KC, KCC, SAA, C-tick, RCM, RoHS, CCC
- Application: Ai Computing, Workstation, PoE Switch, E-bike etc

- **Active PFC design**

- Product efficiency reaches 93.46%, with ripple voltage ranging from 120 to 150mV

- Power density is approximately 1.355 cm³/W.

- Application: Ai Computing, Workstation, PoE Switch, E-bike etc





Portable 100W 2C PD charger with GaN materials

GaN-base Ultra Compact USB-C PD100W PSU



Intertek
5013305

- 1. High Power Output (100W)
- Output: C1 / C2: 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A (100W Max)
- Capable of powering laptops, Portable Gaming Devices,USB-C Monitors & Portable Displays, Docking Stations & Hubs, Small Desktop Devices
- 2. Dual USB-C Ports (2C Design)
- Charge two devices at the same time
- Intelligent power distribution (e.g., laptop + phone)
- Reduces need for multiple chargers
- 3. GaN Technology (Core Advantage)
- Smaller & lighter form factor (up to 40–60% size reduction)
- Higher efficiency (less energy loss, up to ~94% efficiency)
- Lower heat generation, improving safety and reliability
- Safety Certifications: ETL, TUVGS, CB, CE, FCC, UKCA, RoHS
- Efficiency Level: VI
- 4. Application: The desktop dual-port PD 100W power adapter is an efficient and centralized desktop power solution, especially suitable for fixed scenarios that require charging 1-2 high-performance devices simultaneously, such as office desks, workbenches, and home entertainment centers.

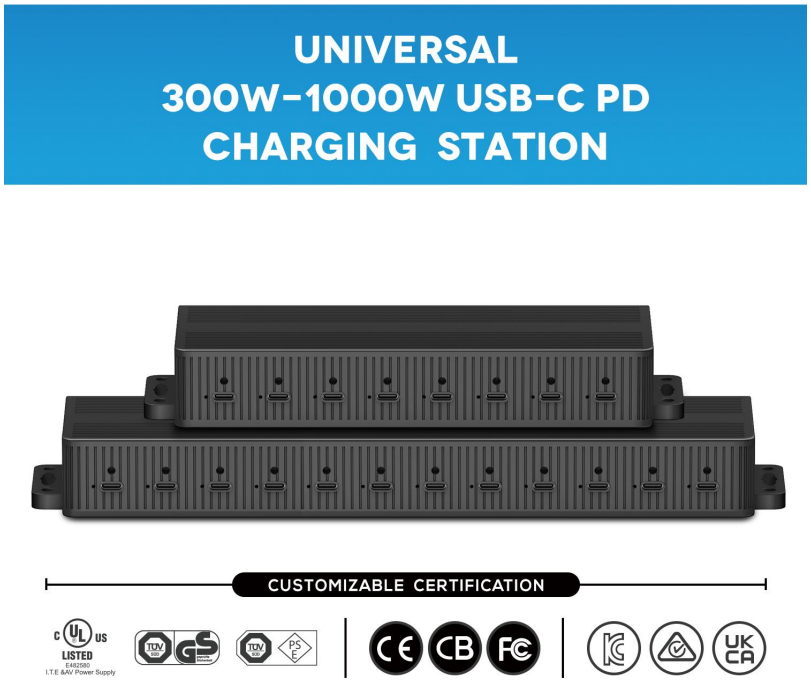
65W USB-C Power Supply with C14 and Locking Connector



- 1. Newest GaN+Cypress PD3.0+5-year warranty
- Secure & Reliable Connection (Locking DC Connector)
- Prevents accidental disconnection during operation
- Ideal for industrial, medical, and commercial environments where stability is critica
- Reduces downtime and improves operational safety
- 2. Standard C14 AC Input (High Safety & Flexibility)
- Compatible with widely used IEC C13 power cords
- More secure and robust than figure-8 (C8/C6) connectors
- Meets stricter safety requirements in professional applications
- Safety Certifications:ETL FCC TUVGS CE CB UKCA PSE KC KCC CCC
- DC tip： TYPE-C with Lock
- 3. Application: a high-reliability power solution designed for harsh environments, with its core value being the prevention of unexpected power outages. It primarily serves professional fields such as film and television production, industrial control, transportation, and medical equipment, as well as fixed/mobile scenarios with stringent requirements for connection reliability

300-1000W OEM ODM OJM Power Station With Locking Connector

HKY Power Limited | Cathedy GmbH



- Lockable station design for fixed and secure installation
- Individual locking system for each USB-C port
- Ideal for public and shared spaces (Conference Rooms, Schools, Government & Hotels)
- **Independent output** on every USB-C port (no power sharing, no performance drop)
- Customizable output configuration per port (PD20W,45W 65W support)
- Standard: 8-Port / 12-Port (custom options: 4 / 6 / 10 ports)
- Application: Fixed locations such as offices, retail stores, educational institutions, and homes that require cleanliness and safety.

Totally Design&Produce according to your needs!

D tap to USB-C PD Adapter



- Cypress PD3.0 chip, 5-year warranty
- Input connector: D tap(P tap)
- Output connector: USB-C
- Input: 12V-24V DC 12A (9-32V Max)
- Output power: 5V3A, 9V3A, 12V3A, 15V3A, 20V5A

- Application: Suitable for Professional photography / videography equipment, lighting equipment, and audio equipment, primarily used to connect professional batteries (such as V-type batteries) to various shooting-related equipment, enabling efficient power supply and system integration. It's especially suitable for on-set production environments where multiple devices work together.

DC to DC PD140W Power Adapter



- Model No.: C145C-145W USB C
- Cypress PD3.1 chip, 5-year warranty
- Input connector: Cigarette Lighter Plug
- Output connector: USB-C
- Input: 12V-24V DC 15A (9-32V Max)
- Single Type-C Output power: 5V3A, 9V3A, 12V3A, 15V3A, 20V5A, 28V5A
- Double Type-C Output power: PD100W+PD45W

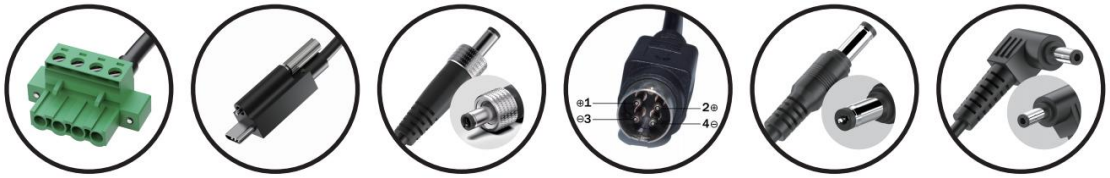
- Application: High-power laptops, portable displays and docking stations, in-vehicle and entertainment systems, outdoor and emergency applications, and simultaneous power supply for multiple devices.

GaN 280W-350W AC/DC power adapter

GaN PSU
280W-350W



- Infineon+NXP+Double PFC
- Ultra-High Power Output (280W–350W)
- Supports high-load devices with stable and continuous power
- Ideal replacement for bulky traditional adapters
- GaN Technology (Core Differentiator)
- Smaller size & lighter weight compared to silicon-based adapters
- Higher efficiency → reduced energy loss and operating cost
- Better thermal performance → improved reliability and lifespan
- High Reliability & Safety
- Built-in protections: OVP, OCP, OTP, SCP
- Can meet certifications such as IEC/UL/medical standards
- MTBF: 300,000 hours



Application: Computers and workstations, audio-visual and creative equipment, network and communication equipment, industrial and testing equipment, security and surveillance.

HKY Leap From ITE to Medical

HKY has taken an interesting 'pyramid' upgrade path. Over the past decade, we started from consumer electronics making power supplies smaller and more efficient; then in industrial sectors (automotive, industrial control), proved their ultimate durability with a 5-year warranty.

Based on GaN & PD fast charging technology the rock-solid enterprise culture DNA gave us confidence over the past two years to migrate these techs to the strictest medical field—from industrial-grade reliability to safeguard medical-grade safety. Our latest medical-grade power supplies pass IEC60601-1(2xMOPP medical grade), and are popular among Global brand medical manufacturers, widely used for various medical equipments.




World Wide
we, TongRo image Stock, Since commence with producing digital image slide/transparency business in 1992, have been building outstanding success in distributing various kind of collections from overseas countries to Korea and in supplying our own collections to many countries through around 45 channel partners.
HKY
Thank For Your Trust
Technology is our core competition
Quality is our guarantee
Service is our fundamental
To make power adapter smaller, nicer, exquisite, stronger