

GaN POWER SUPPLY MANUFACTURE & DESIGN

PROFESSIONAL OEM/ODM/JDM

Shenzhen Huikeyuan Co., Ltd
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PART 1

HKY OVERVIEW

※ Brief Introduction ※ History ※ Corporate Culture
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Company Profile

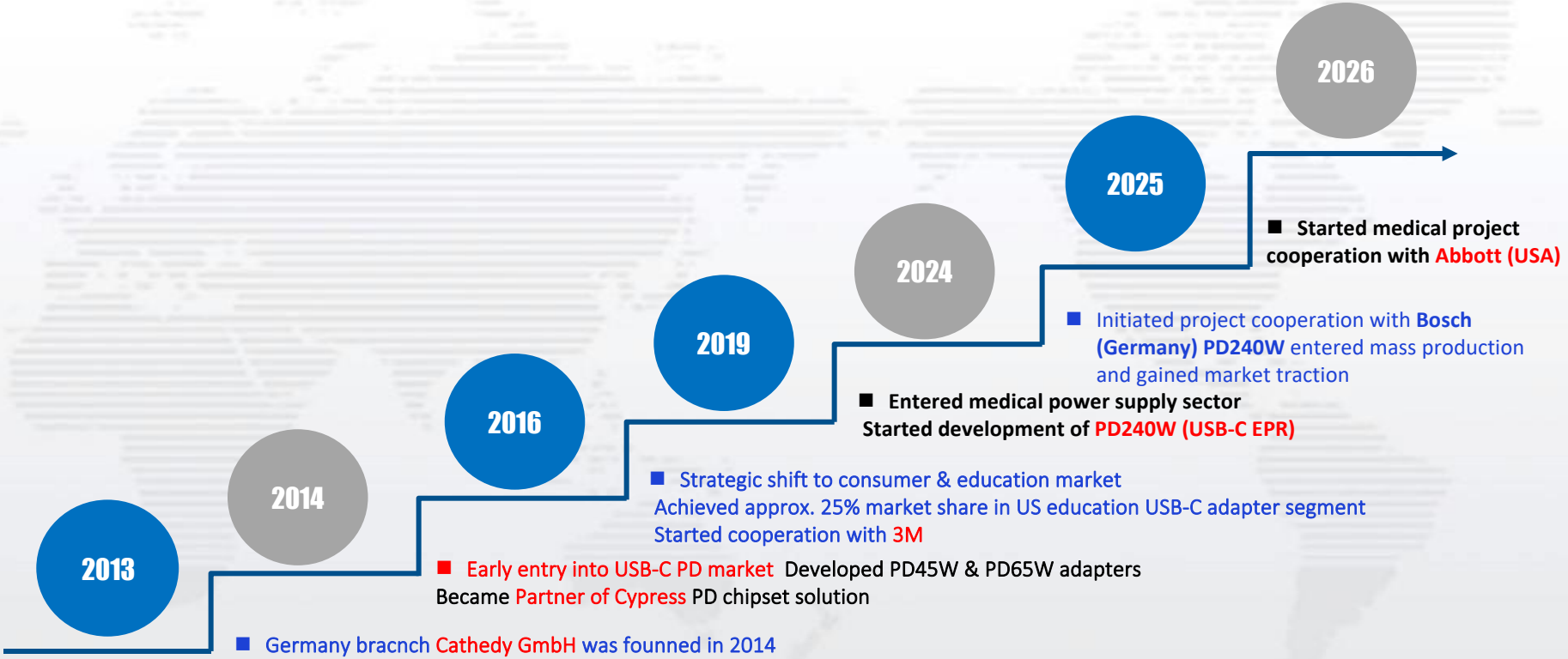
Shenzhen Huikeyuan Co., Ltd. (HKY), founded in 2013, is a National High-Tech Enterprise focused on intelligent power adapters. With manufacturing in Shenzhen and Huizhou and maintains a subsidiary in Hamburg, Germany, we serve global markets.

Our solutions support AI & HPC, industrial, medical, telecom, and consumer applications, with flexible OEM/ODM/OJM services. Products meet global certifications (UL, CE, FCC, CB, etc.) and are backed by ISO9001, ISO13485, and other systems.

We offer a 5-year warranty, flexible MOQ, and strong supply capability. HKY is committed to delivering reliable, high-efficiency, and innovative power solutions worldwide.



Development History



Corporate Culture



Mission

- Providing Excellence and Reliability in Power Solutions across the Globe.

Vision

- Integrity & Honesty – Guided by integrity in all actions; promises made, promises kept
- Pursuit of Excellence – Work proactively and efficiently to achieve and exceed performance goals
- Mutual Respect – Foster a collaborative environment that values both the big picture and individual uniqueness

Core Values

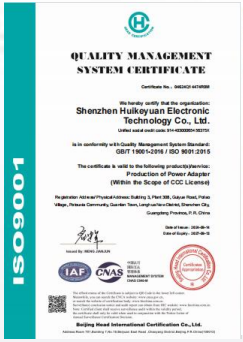
- Commit to R&D and high-standard certifications
- Provide comprehensive after-sales service， support flexible small-batch trials and free samples
- Be a long-term strategic partner, maximizing customer value
- Offer employee compensation and benefits above industry standards

Eco-Friendly

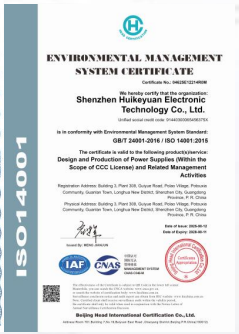
- Deliver eco-friendly, safe, and energy-efficient products with unique selling points

Factgory Certificates

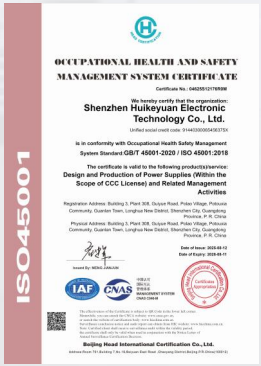
- ✓ ISO 9001:2015 (Quality Management System)
- ✓ ISO 13485:2016 (Quality Management System for Medical Devices)
- ✓ IECQ QC 080000:2017 (Hazardous Substance Process Control)
- ✓ RBA (Responsible Business Alliance)
- ✓ EcoVadis Certification
- ✓ GB/T 24001-2016 idt ISO 14001:2015 (Environmental Management System)
- ✓ GB/T 45001-2020 idt ISO 45001:2018 (Occupational Health and Safety Management System)
- ✓ GB/T 39604-2020 (Social Responsibility Management System)
- ✓ ISO 14064-12018 (Carbon Emission Management)



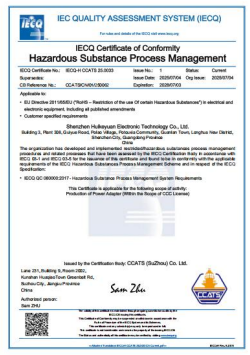






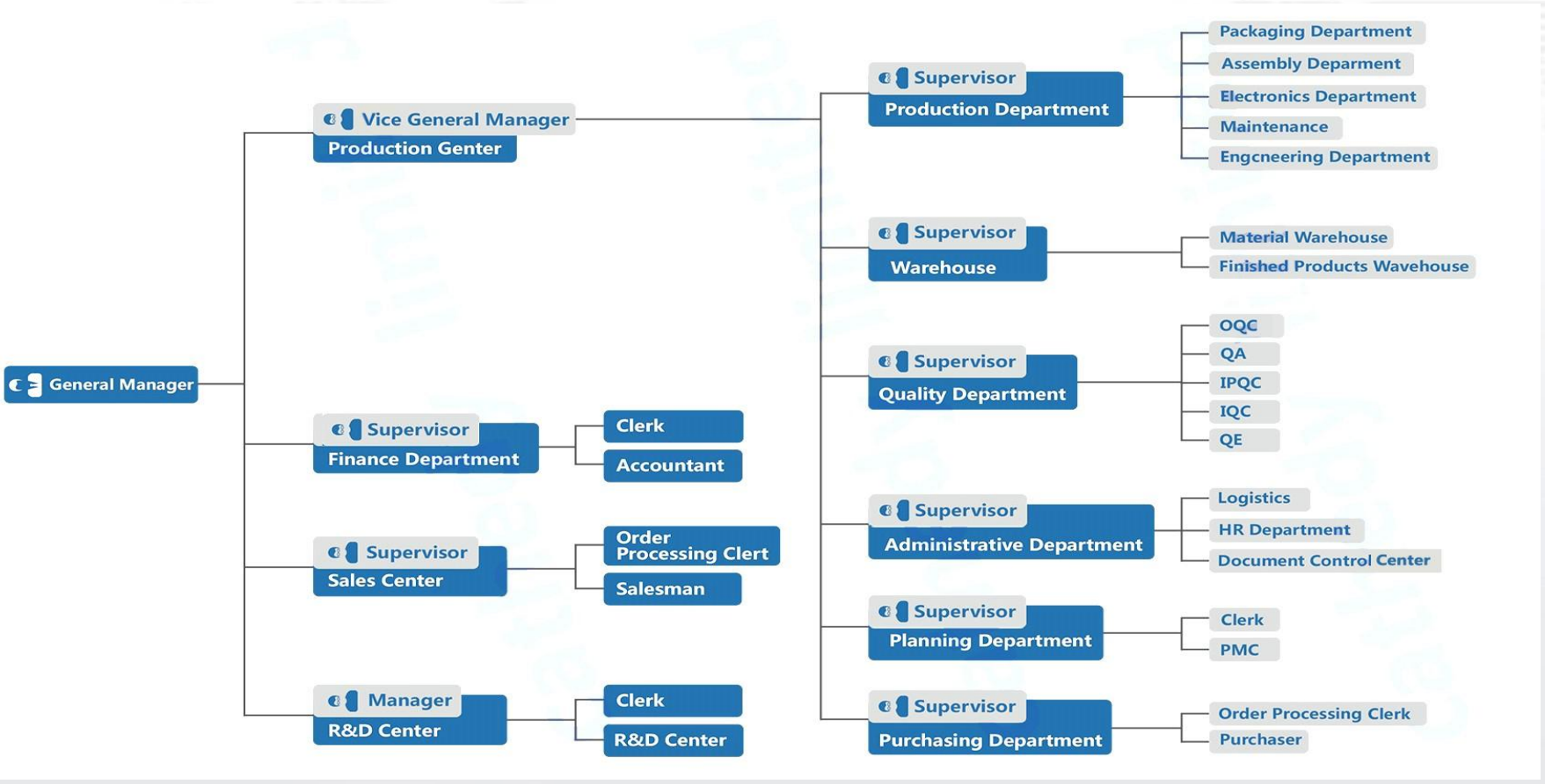








Team Introduction



Team Introduction

Founder & Technical Leader – Mr. Jack Mei



- Over 20 years of experience in power electronics and electrical engineering, Specialized in GaN (3rd generation semiconductor) power technologies, Extensive expertise in high-efficiency, high power density, and reliability-oriented design.
- **Founded Shenzhen Huikeyuan Co., Ltd. (HKY) in 2013**

Successfully built HKY into a trusted power adapter manufacturer serving global markets. Established long-term partnerships with leading EU & US retail chains and professional notebook accessory distributors

- **Strategic Vision**

Early adopter of USB-C power delivery (PD) technology, Driving innovation toward high-power USB-C (PD140W / PD240W) solutions, Committed to enabling next-generation applications in AI, HPC, and medical systems

Parts Supplier & Schemes Partner



PART 2

PRODUCTS

※ Catagory ※ Certificates ※ Main Products

※ Services

Catagory



1.GaN USB-C PD3.0 3.1 PSU:

PD45W 65W 100W 140W, 240W (Desktop Style, Wall-Mounted Charger, Power adapter with Interchangable travel Plugs)

2. GaN Industrial power adapter /Medical Power Supply Switching Power supply 40W~480W （60601，62368，60335，61558 etc）

Designed for Office Electronics, Rugged Tablet, Panel PC, Network Communications, AV products, POS Terminals, Electrical Tools, E-Bike, E-Scooters, IPC, Mini PC, Server, Medical Devices 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.

SAFETY CETIFICATES

- UL
- ETL
- FCC
- TUVGS
- CE
- CB
- UKCA
- KC KCC
- RCM SAA C-tick
- PSE
- ROHS
- ERP
- DOE VI

























GaN USB-C PD3.1 240W Power Adapter (Application)

1. High-Performance Laptops & Workstations
Gaming laptops
Mobile workstations
2. AI & Computing Devices
Edge AI computers
Compact servers / GPU boxes
3. Industrial Equipment
Industrial PCs (IPC)
Automation systems
Embedded control devices
4. Networking & Communication Equipment
High-power routers / switches
5G base stations
PoE systems
5. Professional Equipment
Broadcast systems
Audio amplifiers
Testing & measurement devices
6. Robotics & Automation
Service robots
Humanoid robots
AGV / AMR systems







USB-C PD3.0 65W Power Adapter







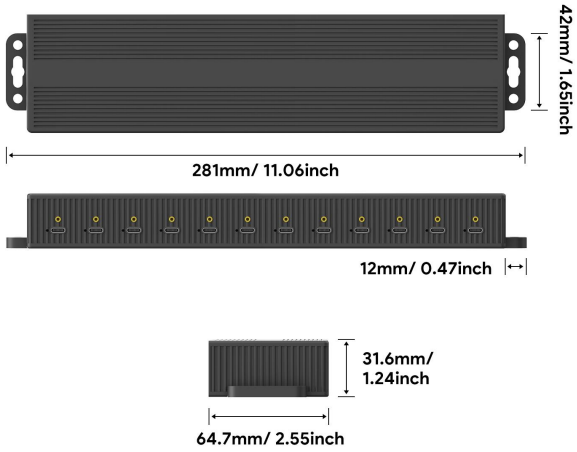


- Model: D65A-PD65W-C14
- Power: PD65W
- Input: 100-240VAC, 50/60Hz, 1.5A Max
- Output: 5-20V, 65W, 3.25A Max
- Size: 115*50*30mm
- IC: Cypress PD3.0
- Safety Certifications:ETL FCC TUVGS CE CB UKCA PSE KC KCC CCC
- Efficiency Level: VI
- DC tip： TYPE-C with Screw Lock

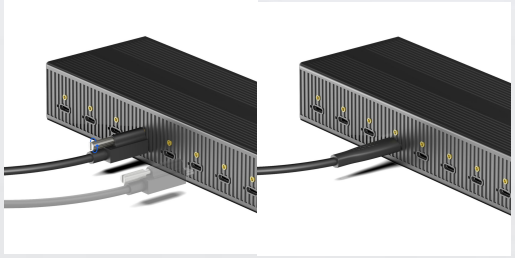
Application: Ideal for industrial, medical, and commercial environments where stability is critica

Prevents accidental disconnection during operation
Reduces downtime and improves operational safety

Smart & Secure USB-C Charging Solution



- 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 / 10/14/16/20 ports)





Application: Fixed locations such as offices, retail stores, educational institutions, and homes that require cleanliness and safety.

GaN AC/DC Power Adapter





- Input: 100-240V 50/60Hz
- Output :12-64V
- Power: 100W-560W Max
- Efficiency: 89% Min
- PFC: Double Active PFC
- MTBF: 300,000 Hours
- Test Standard: 60601 / 62368 / 60335/61558



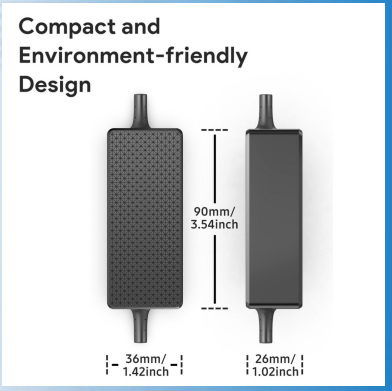
IP68 AC –DC Adapter



IP67 DC Adapter







DC to DC Power Adapter



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

Services

Fast Response & Engineering Support

Dedicated sales
Technical support from design-in to mass production

Flexible Project Support

OEM / ODM / OJM customization
Support for small-volume & pilot runs
Fast sample delivery for evaluation

Quality & Reliability Assurance

Strict QC process (IQC / IPQC / OQC)
100% burn-in testing
MTBF: 100K-300K (hours)

Long-term Support

Quick feedback & problem-solving
5-year warranty
Long-term partnership mindset



PART 3

INDUSTRY PERSPECTIVE

※ Growth Trends

※ Technology Trends & Customer Demand Evolution

Growth Trend



From 2025 to 2028, the external power supply market is shifting from consumer-focused to professional, high-power applications. The main drivers are: rapid growth of AI and high-performance devices, expanding industrial and automation applications, Security & Telecom , Medical & Professional Equipment.

AI & High-Performance Computing
- Devices: AI laptops, GPU boxes, Edge AI computers
- Power requirements: 240W+, fast transient response, multi-protocol (PD3.1)

Industrial & Automation
- Devices: AGV, robotics, IPCs
- Power requirements: 24/7 operation, anti-interference, wide temperature range, high reliability (locking/secure connectors)

Security & Telecom
- Devices: Access control, PoE systems, 5G base stations
- Power requirements: Distributed supply, outdoor durability, high uptime

Medical & Professional Equipment
- Devices: Diagnostic devices, broadcast/audio equipment
- Power requirements: Low leakage, stable performance, compliance with certifications

Technology Trends & Customer Demand Evolution



Technology trends in external power supplies include high-power output, GaN adoption, multi-protocol support , high-reliability connections, and efficiency improvements , guiding R&D and product development. At the same time, customer demand is shifting from price-driven to reliability-driven, from standard products to customized solutions, and from single power supplies to system-level solutions, supporting sales and solution strategies.

■ **Technology Trends**

High power output (240W+, 330W+)
GaN adoption
Multi-protocol support (PD3.1, others)
High-reliability connections (locking / anti-disconnect)
Efficiency improvements (Level VI, CoC Tier 2)

■ **Customer Demand Evolution**

Shift from price-driven → reliability-driven
Standard products → customized solutions
Single power supply → system-level solutions

PART 4

DEVELOPMENT PLAN

※ Product Plan ※ Factory Development
※ Marketing Plan ※ Strategic Target

DEVELOPMENT PLAN

GaN Power Adapter

- PD Power Station
- AC Power Adapter 400W-480W (2026.12)
- AC Power Adapter 500W-600W (2027)

Target Industries

- AI & high-performance devices (AI laptops, GPU boxes, Edge AI)
- Industrial automation (IPC, AGV, robots)
- Medical equipment
- Consumer Electronics (Distritutors)

Target

- Our key objectives include improving product reliability and expanding global presence

Product → **Factory** → **Target Industries** → **Marketing** → **Target**

Cleanroom

- Production line upgrade, Shenzhen ,CN (2026.4)
- Cleanroom (Dust-free workshop) Huizhou, China

Marketing

- Serving global high-end markets including Europe and North America
- Partnering with OEM/ODM manufacturers and system integrators
- Focused on industries with high reliability requirements



THANKS