



**TOP POWER**

**Guangzhou Top Power Electronics Technology Co.,Ltd.**

广州顶源电子科技股份有限公司

<http://en.gztoppower.com/>

**China Factory of DC-DC/AC-DC**

# Guangzhou Top Power Electronics Technology Co., Ltd.

## Menu

- Encapsulated power converters ranging 0.1W to 400W (SIP/DIP/SMD)
- Thousands of DC/DC & AC/DC converters with 100 series
- Various inputs and outputs for different application
- Talent R&D team with more than 10 years experience
- Automated production line and skillful workmen
- RoHS compliant and SGS, CE approval
- ISO9001:2015&IATF16949: 2016 certified manufacturer
- Found in 2010



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## 1.1 Company profile. Product range.

R&D、Manufacturing、Marketing

### \*Main products



Converter modules (SMD/SIP/DIP)

■ DC-DC: 0.1 - 400W

■ AC-DC: 1 - 30W





# What we do

## 1.2 Company profile. Patents.



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## What we do

### 1.3 Company profile. Service Networks.



- Domestic: over 20 cities
- International: Europe, America, Africa, Southeast Asia , etc.



## 1.4 Company profile. Product Application.



Electricity



Industrial control



BMS Charging system



Measurement Instrument



Railway transportation



Security Industry



Military Industry



New Energy



Medical



Telecommunication





## What we do

01. Electricity
02. Alternative Power
03. Industrial control
04. Measurement Instrument
05. Railway transportation
06. Telecommunication
07. Security
08. Medical
09. Military Industry
10. Mineral industry

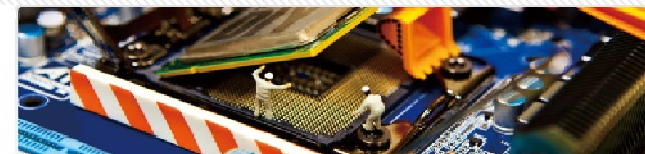


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## 2.1 Product category. Micro power modules.

### \*Main products

#### DC-DC converters

isolated (SIP/DIP/SMD)

0.1-3W

4-400W

non-isolated (SIP)

0.75-24W

#### AC-DC converters

isolated 1-30W (SIP/DIP)

Packing type:

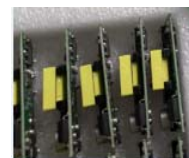
1. REEL packing (SMD 500pcs)



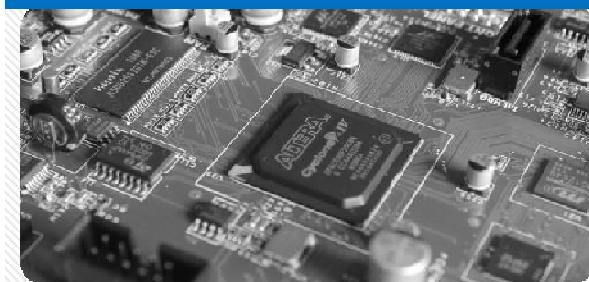
2. Tubes packing  
(SMD, SIP, DIP)



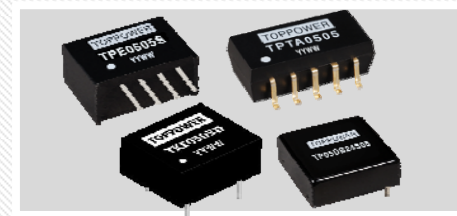
3. Box with foam  
(SIP/DIP)



## Products



DC-DC CONVERTERS  
AC-DC CONVERTERS



## 2.1.1 Product category. DC-DC converter 0.1-3W. DIP/SIP



Power(W):	0.1-3W
Input(VDC):	3.3V-72V
Output(VDC):	3.3V~48V / $\pm 3.3V \sim \pm 24V$ -48 ~ -72V
operation temperature:	-40°C ~ 105°C
packaging:	DIP / SIP
case material:	Plastic(UL94-V0)

\*\*\*no MOQ

➤ Isolation voltage: 1KV, 3K, 6K, 10KVDC

➤ Single output, dual bipolar output,

dual isolated output ,Triple output

➤ Unregulated ,2:1 & 4:1 wide input range

➤ Low Ripple & Noise

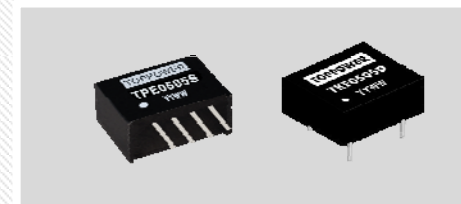
➤ High efficiency ,high reliability

➤ The world's smallest DC-DC module:

DIP:11.50\*9.8\*5.46

SIP:11.48\*6.00\*7.46 mm

## Products



### Main part series

Unregulated parts:

1W: TKA,TKE,TPA,TPE, TPJ,  
TPV,TPR-1W,  
TPG, TPK

Regulated parts:

1W: TPB-1W ,TPF , TPI ,TPV-SAR  
2W: TPB

2:1 Wide input parts:

SIP: TP2L-1W, TP2L, TP2L-3W,  
DIP: TPD-3W

10KV isolated :TPS

Triple output: TPT

## 2.1.2 Product category. DC-DC converter 4-400W. DIP



Power (A) : 4-40W

isolated voltage: 1.5KVDC

Output type: Single / Dual

Input (VDC) : 5V-72V

output (VDC) : 3.3V~24V

Operation temperature: -40°C ~ 85°C

Packaging: DIP

case material: Plastic(UL94-V0)/ metal

- Isolated: 1.5KV (3KV optional)
- Single /Dual output
- 2:1 & 4:1 wide input
- Shielded metal or plastic (UL 94V-0)
- International industry-standard footprints
- Low Ripple & Noise , miniature size,
- High efficiency ,high reliability

**\*\*\*no MOQ**

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## Products



### Main part series

Size:25.4\*25.4\*11.75mm

TP03DB,TP05DB,TP06DB,TP10DB,TP15DB

Size:31.75\*20.32\*10.65mm

TP03DA ,TP04DA ,TP05DA ,TP06DA  
TP08DA

Size:50.8\*25.4\*12.2mm

TP10DC ,TP15DC ,TP20DC ,TP30DC  
TP40DC,TP50DC

Size:50.8\*40.6\*11.2mm

TP20DD

Size:50.8\*50.8\*13.3mm

TP25DG ,TP30DG ,TP40DG,TP50DG

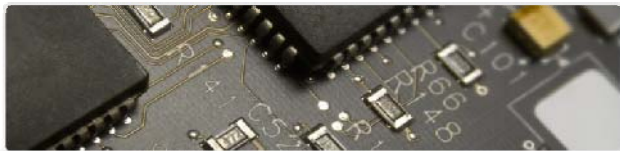
Others:

TP50DH,TP100DH,TP300DF,TP400DF

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### 2.1.3 Product category. DC-DC converter 0.25-2W . SMD



Power(W):	0.25-2W
Input(VDC):	3.3V-24V
Output(VDC):	3.3V~15V / $\pm 3.3V \sim \pm 15V$
Operation temperature:	-40°C ~ 105°C/125°C
packaging:	SMD
certificates:	ROHS CE
case material:	Plastic(UL94-V0)

**\*\*\*no MOQ**

- Packaging : SMD
- Isolated voltage : 3KV
- Input voltage: 3.3V,5V,9V,12V,15V,24V
- Single /dual output
- High efficiency , high power density
- Miniature size, Good flatness
- Qualified for high temperature requested by lead-free reflow solder processes and suitable for automated assembly machine

## Products



Case size:  
13.7\*8\*7mm  
16.24\*8\*7mm  
16.3\*8\*7mm

### Main part series

**0.25W**  
TPET-W2, TPAT-W2, TPVT-W2

**0.5W**  
TPET-W5, TPAT-W5, TPVT-W5

**1W**  
TPET, TPAT, TPAT-A, TPVT

**2W**  
TPET-2W, TPAT-2W, TPVT-2W



## 2.1.4 Product category. Non-isolated DC-DC converter 0.5A-2A . SIP



Output current: 0.5-2A

isolated voltage: 0 (non-isolated)

Output type: Single

Input (VDC): 12V, 24V

Output (VDC): 1.5V, 1.8V, 2.5V, 3.3V, 5V,  
6.5V, 9V, 12V, 15V

operation  
temperature: -40°C ~ 105°C

Packaging: SIP

case material: Plastic(UL94-V0)

➤ Efficiency up to 96%

➤ Single output

➤ Super wide input range:

12V(4.75-26V); 24V(18-32V), etc.

➤ Miniature size

➤ Short-circuit protection

➤ Thermal shutdown protection

➤ No external heat-sink required

\*\*\*no MOQ

## Products



Case size:

10.2\*11.6\*7.5mm

17.5\*11.5\*9mm

## Main part series

0.5A: TP78XX-0.5

1A: TP78XX-1  
TP78LXX-1

1.5A: TP78LXX-1.5

2A: TP78XX-2.0



## 2.1.5 Product category. AC-DC converter 1-30W . DIP/SIP



➤ For both AC input and DC input application

➤ Isolated voltage: 2.5KVAC / 3KVAC/4KVAC

➤ Single /dual /Triple output

➤ 2:1 & 4:1 wide output range:

165 ~ 265V , 85 ~ 265V

➤ Overcurrent protection circuit,

➤ filter circuit, rectifier filter circuit

➤ Output short circuit, overload protection

➤ Internal overheat protection

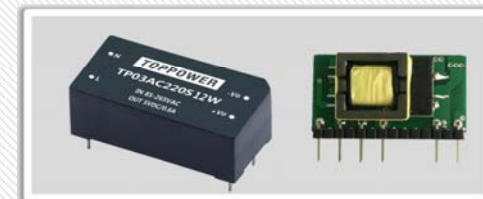
➤ miniature size

➤ No external heat-sink required

Power(W):	3-30W
Isolated voltage:	2.5KVAC /3KVAC/4KVAC
Output type:	Single /dual /Triple output
Input(VDC):	85V-265V
Output(VDC):	3.3V~24V / $\pm 5V \sim \pm 24V$
operation temperature:	-40°C ~ 70°C
Packaging:	SIP DIP
case material:	Plastic (UL 94V-0)

\*\*\*no MOQ

## Products



### Main part series

#### DIP

1-2W: TP01AZ TP02AZ

3W: TP03AC ,TP03AA , TP03AR

5W: TP05AC, TP05AR, TP05AS

10W: TP10AC ,TP10AS, TP10AT

15W: TP15AC,TP15AT TP15AS

20-30W: TP20AC, TP20AU  
TP25AU~30AU

#### SIP

2-3W: TP03AL

3-5W: TP05AL



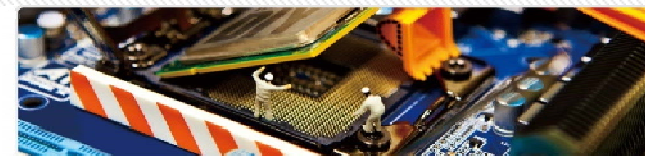


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# Core advantage



## Why with us

01. R&D
02. Raw materials
03. Production Process
04. Production equipment
05. Testing and inspection
06. Process Control



### 3.1 Core advantage . Competitiveness . Design

#### [Professional R&D Team]

- \*R & D team is expert-level people,  
Has been in the micro-power power module industry for more than 20 years
- \*good at the power converters module and master the core technology products

#### [Mature design and products]

- \*Mature products:  
after decades of validation and optimization of Technology , product is mature with stable and reliable quality.
- \*A variety of products:  
With more than 100 series, thousands of mature and stable products to choose from, customers is very easy to find the necessary products

## Why with us

01. R&D
02. Raw materials
03. Production Process
04. Production equipment
05. Testing and inspection
06. Process Control

### R&D

01. Talent R&D team
02. More than 12 years experience





### 3.2 Core advantage . Competitiveness . Raw materials

Electroni  
c  
compon  
ents

#### International famous brands(Euro/America)

Good indicators, high precision

Stable and reliable

long life

Temperature:-55—150℃

Quality level: AEC Q100(SMD)



## Why with us

01. R&D
02. Raw materials
03. Production Process
04. Production equipment
05. Testing and inspection
06. Process Control

\*Materials purchase directly from the manufacturer or the original authorized agent of the international brands.

\*New suppliers must undergo product certification and supplier survey evaluation certification, and after one year after the trial as a qualified supplier.

\*All suppliers need to do Performance evaluation, procurement and performance appraisal



### 3.3 Core advantage . Competitiveness . Raw materials

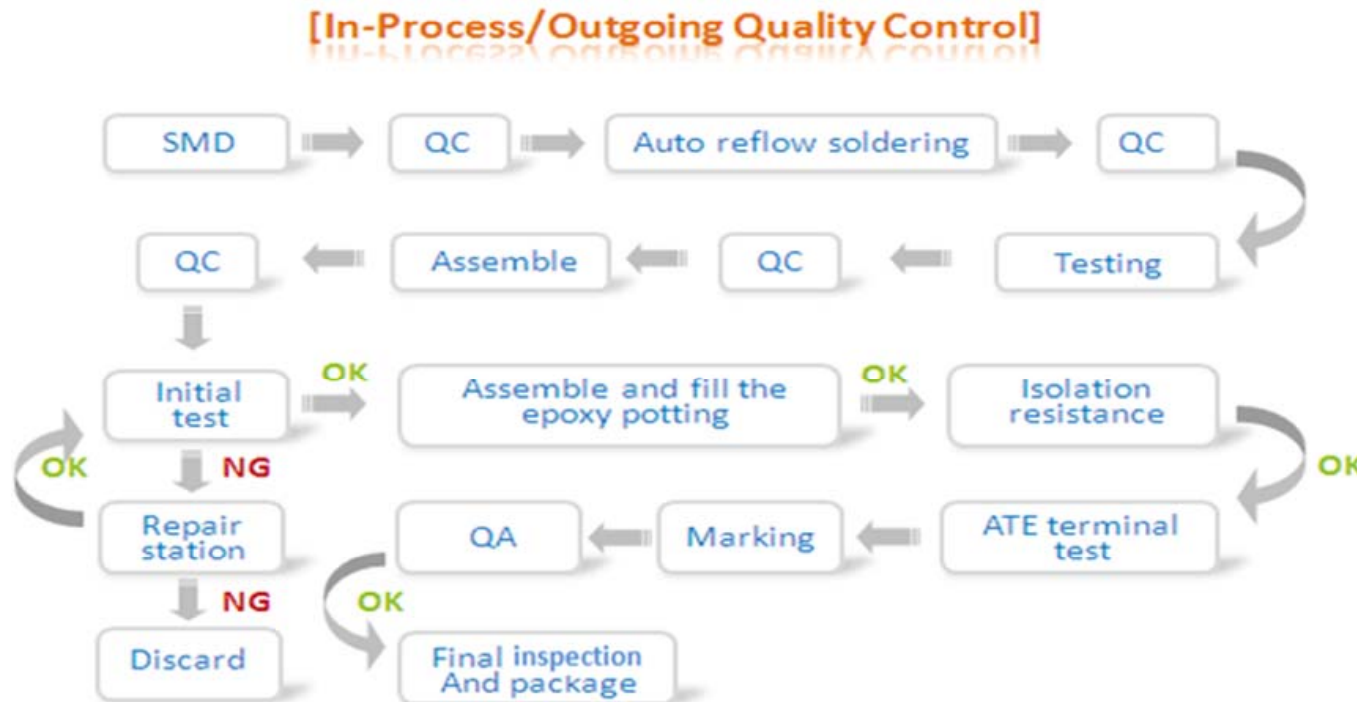
ROHS AND SUPPLIER MANAGEMENT	ROHS	SUPPLIER
	<p>A、ROHS management</p> <ul style="list-style-type: none"><li>1、SGS report</li><li>2、<a href="#">ROHS</a> statement</li></ul> <p>B、production line</p> <ul style="list-style-type: none"><li>1、ROHS controlled,</li><li>2、SMD: Lead-free soldering</li></ul>	<p>C、Supplier management</p> <ul style="list-style-type: none"><li>1、product certificated</li><li>2、Supplier audit certificated</li></ul> <p>D、Sign Agreement</p> <ul style="list-style-type: none"><li>1、Quality assurance and traceability agreements</li><li>2、PCN agreement</li></ul>

## Why with us

01. R&D
02. **RAW MATERIALS**
03. PRODUCTION FLOW
04. PRODUCTION MACHINE
05. TEST&INSPECTION
06. PROCESS CONTROL



## 3.4 Core advantage . Competitiveness . Production flow



- Automated production equipment is used in the production process to ensure product consistency
- all products passed the initial and final test twice 100% automated testing process to ensure product quality
- Online real-time monitoring high temperature full load of the burn-in system, simulating the actual application

## Why with us

01. R&D
02. RAW MATERIALS
03. PRODUCTION FLOW
04. PRODUCTION MACHINE
05. TEST&INSPECTION
06. PROCESS CONTROL

## FACILITIES

01. SMT Production Line
02. Automatic Coil Winding Machine
03. Spot welding machine
04. PCB depaneling machine
05. Automated Testing Systems
06. SMD Envelope Machine
07. AOI Testing System
08. High/Low Temperature Testing



### 3.5 Core advantage . Competitiveness . Production machine

Spot welding machine	VS	iron
Instantaneous high current principle, no temperature No solder and flux, no residue	√:×	Conventional soldering iron instantaneous high temperature damage to the device Solder and flux, residue, tin splash phenomenon, such as the use of cleaning will cause the coil insulation and plastic damage
The amplifier guarantees the accuracy of the welding	√:×	Welding accuracy is not guaranteed
Easy to operate, high efficiency	2:1	Low efficiency

## Why with us

01. R&D
02. RAW MATERIALS
03. PRODUCTION FLOW
04. PRODUCTION MACHINE
05. TEST&INSPECTION
06. PROCESS CONTROL



### 3.6 Core advantage . Competitiveness . Process control

- **Curing process** : Production process after years of practice, technology norms and curing, each post has matched Operating instructions and other anti-fenditure devices, reduce dependence on people, reduce random quality problems, to ensure that products are not due to personnel changes Fluctuations, to ensure product consistency.
- **Process card**: Each batch of products have a process card, record the product information and status, each process conditions.
- Adverse product With different color container storage, re-inspection of defective products after repair, and can be traced back.
- Instrument calibration required, Ensure correctness, and carry out maintenance on the equipment as required to ensure the equipment In good condition.
- **Material Management** : Material together with the work order, finished a single material clean-up immediately after the warehouse, to prevent other materials on the misuse of the station.
- **staff training** : The implementation of pre-induction training of production personnel, qualified before induction, and regular training to improve.

## Why with us

01. R&D
02. RAW MATERIALS
03. PRODUCTION FLOW
04. PRODUCTION MACHINE
05. TEST&INSPECTION
06. PROCESS CONTROL



### 3.7 Core Advantage . Summary.

Guarantee the quality consistency and stability of the products

**R&D** :Professional Team, Design Control

**Selection of raw materials:** International brands, procurement channel control

**Equipment:** Automated production and test equipment

**Production:** Strict production processes and production control

**Inspection:** First inspection, IPQC process inspection, 100% initial test, final test, military standard zero defect sampling

**Strict implementation of PCN:** All design, raw materials, process can not be changed unless the customer requests a change

**Cost-effective:** International quality, domestic prices

**Delivery:** Maintains adequate inventory and just-in-time delivery

Conversional product: 3-7days

Un-conversional product : 2-4week

## Why with us

### Strong Points

01. Superior Quality
02. Competitive Price
03. Fast Delivery
04. Professional Services



### 3.8 Core Advantage . Summary.

#### Professional Service

##### Before -sale

- According to the provision of parameters, recommend the right products, provide recommended circuits and power solutions.
- Free samples for customer testing and verification.
- Technology Exchange

##### After-sale

- Technical service support: 2 hours response, on-site support, 48 hours to reach the scene
- Problems, whether or not the quality of our products, are immediately responded to help your company with the Department Management and solution.
- Technical support after sales
- Technology Exchange



## Why with us

### Strong Points

01. Superior Quality
02. Competitive Price
03. Fast Delivery
04. Professional Services





Select “**TOPPOWER**” , Select “**High quality power converters**”

Thanks

好 电 源 中 国 造

**TOP POWER**

Customers reference:



Strategic Partners:

