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## Product Catalog 2022



## **ABOUT US**

- One of the largest and most powerful electronic instrument and electronic tool manufacturers in China, located in Guangming District, Shenzhen City since it was founded in 1996.
- The member of China Soldering Station Industry Standard Committee and National Standardization Technical Committee of Home Appliances.
- Transferred successfully from an OEM factory into a widely accepted brand enterprise and was titled many times as the "National New High-tech Enterprise" through continuously brought in professional work staff and international management principles.
- A system work solution provider experienced in developing, manufacturing, sales and after-sales services, and focused in the following two industrial categories:
  - 1. Advanced soldering and desoldering tools including lead-free soldering station, hot air station, rework system, BGA rework station.
  - 2. Linear DC power supply, switching power supply and programmable power supply.
- Enterprise obtained ISO9001:2015 quality control system. Products approved by CE, RoHS 2.0, UKCA, KC, SAA and CCC.
- Establishing worldwide distribution network and local cooperation partnership.

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Solder Stand
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Auto standby

℃/°F available

Fault display

Automatic identification Software Control

**Computer control** 





# **GT-6150**

Single channel high- end Intelligent unleaded soldering station



#### Features:

• Compatible with various type of solderingtools,

utility model with multiple functions.

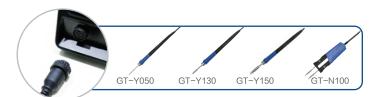
- Max Power is 150W.
- Big silicone buttons operate comfortable and reliable.
- All kinds of parameter data and information in the form of graphics display.
- Can automatically recognize the soldering tools
- and upload the corresponding parameters.
- Provide 3 groups shortcut temperature to simplify operations.



## **GT-6200**

Dual channel high- end Intelligent unleaded soldering station





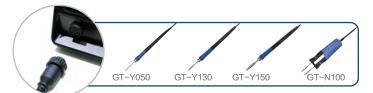
Automatic identification

#### Features:

- Compatible with various type of soldering tools,
- a machine serves several purposes.
- Whole machine max power is 200W.
- Two output channels can work at the same time.
- Big silicone buttons operate comfortable and reliable.
- All kinds of parameter data and information in the form of graphics display with its large LCD screen.
- Can automatically recognize the soldering tools and upload the corresponding parameters.
- Provide 3 sets shortcut temperature to simplify operations.







ATTEN

Automatic identification

# GT-5150

## Single channel high- end Intelligent unleaded suction soldering station



### Features:

- Compatible with various type of soldering tools, one machine serves several purposes.
- Built- in vacuum suction pump.
- Max power is 150W.
- Big silicone buttons operate comfortable and reliable.
- All kinds of parameter data and information in the form of graphics display with its large LCD screen.
- Can automatically recognize the soldering tools and upload the corresponding parameters.

GT-Y150

GT-N100

• Provide 3 sets shortcut temperature to simplify operations.

**Desoldering Nozzles** 



## **GT-8102**

Intelligent high power hot air rework station





А1606 Ф6.5mm

А1609 Ф9.5mm Features:

- LCD display making parameters monitorable and system setting easier.
- Equip with vacuum suction pen, components can be extracted after desoldering.

GT-Y130

- Installed brushless fan, air volume can reach 120 L/min.
- 1000W high power heating core, heating up fast.
- Support timing work & password function.
- 3 sets shortcut air volume/temperature are available.
- Temperature compensation, fixed temperature, upper & lower temperature limits making temperature's management easier.
- Automatic standby/air delay after power-off function makes work safer.





#### Specification:

Pictures -				
Model	GT-6150	GT-6200	GT-5150	GT-8102
Voltage	AC(100	V/110V/120V    220V/230V/24	OV) 50/60Hz (Optional)	
Power	150W	200W	150W	1000W
Temperature range	150°C~480°C	150°C~480°C	300°C~480°C	100°C~480°C
Temperature stability	±2°C (in still air, no load)	$\pm 2^\circ$ C (in still air, no load)	$\pm$ 2°C (in still air, no load)	±5°C (in still air, no load)
Handle	GT-Y130	GT-Y130, GT-N100	GT-X150	GT-R102
Soldering tip	T130-1.0I	T130-1.0I, T100-0.5I	Desoldering Nozzles: 3 PCS	Nozzles:(φ4mm、 φ6.5mm、φ9.5mm)
Soldering tip/heater	Integrated	Integrated	Integrated HS-5150	Integrated HR-2102
Soldering stand	S-01	S-01, S-02	S-03	Air gun holder
Inner box	37.5x34.5x22.5(cm)	45.8x37x22.5(cm)	63.5x32x24(cm)	43x32.5x24(cm)
N.W.	4.11KG	4.97KG	5.05KG	5.08KG
G.W.	6.33KG	7.61KG	7.32KG	6.81KG
Package list	GT-6150 host: 1 Set Operation manual: 1 Set Power cord : 1 Pcs Certificate of qualification : 1 Pcs 3.5mm grounding receptacle : 1 Pcs GT-Y130 handle set : 1 Pcs S-01 Iron stand : 1 Pcs	GT-6200 host: 1 Set Operation manual: 1 Set Power cord : 1 Pcs Certificate of qualification : 1 Pcs 3.5mm grounding receptacle : 1 Pcs GT-Y130 handle set : 1 Pcs S-01 Iron stand : 1 Pcs GT-N100 tweezers handle : 1 Pcs S-02 Iron stand : 1 Pcs	GT-5150 host: 1 Set Operation manual: 1 Set Power cord : 1 Pcs Certificate of qualification : 1 Pcs 3.5mm grounding receptacle : 1 Pcs GT-X150 desoldering gun : 1 Pcs S-03 Iron stand : 1 Pcs	GT-8102 host: 1 Set Operation manual: 1 Set Power cord : 1 Pcs Handle holder : 1 Pcs Spray nozzle : 3 Set Vacuum pen: 1 Set Hot air gun handle: 1 Pcs Conformity certificate: 1 Set Tool box: 1 Set Suction disc: 4x3 Pcs
Applicable	<ul> <li>Institutes/Enterprises</li> <li>Education and practice</li> <li>Maintenance</li> <li>Hobby</li> </ul>	2		



Note: GT series optional handles details in page 7.



Note: Integrated heater details in page 8–9.(T50/T100/T130/T150)

ATTEN www.atten.com -04-

# GT-8100

A1130

A1170A

#### Features:

- LCD display making parameters monitorable and system setting easier.
- Equip with vacuum suction pen, components can be extracted after desoldering.
- Installed brushless fan, air volume can reach 120 l/min.
- 1300W high power heating core, heating up fast.
- Support timing work & password function.
- 3 sets shortcut air volume/temperature are available.
- Temperature compensation, fixed temperature, upper & lower temperature limits making temperature's management easier.
- Automatic standby/air delay after power-off function makes work safer.
- With RS485 communication interface.

Model	GT-8100		
Voltage	AC(100V/110V/120V    220V/230V/240V) 50/60Hz (Optional)		
Power	1300W		
Temperature range	100°C~500°C		
Air flow	120L/min(Max)		
Timing range	10-900S		
Heater	Pluggable HR-2102B		
Computer control	Yes		
Inner box	374x273x190mm		
N.W.	3.54kg		
G.W.	4kg		
Package list	GT-8100 host: 1 Set Operation manual: 1 Set Power cord : 1 Pcs Certificate of qualification : 1 Pcs Handle : 1 Pcs Spray nozzle : 2 Pcs		
Applicable	<ul> <li>Institutes/Enterprises</li> <li>Education and practice</li> <li>Maintenance</li> <li>Hobby</li> </ul>		

Nozzles details in page 31.

## IOT Function GT-8100



### Intelligent management platform

Soldering station built-in 485 communication module(Wireless communication module can also be installed), can be docked with intelligent management platform software system, Realization: interconnected real-time monitoring, process preservation and copying, data storage and traceability, statistical analysis and management, monitoring and alarm prompts, remote control.

ATTEN www.atten.com -06-

### MS-900 疑記 4 In 1 Intelligent Rework Station



### Applicable:

- High accuracy MCU control is employed to synchronously detect whether the 3 tool channels can be used independently and synchronously without mutual interference.
- Built-in vacuum generator

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- Super power. The whole machine can provide a maximum of 900 W power output.
- Stand-alone machine can carry out multiple desoldering tasks simultaneously.
- Large screen graphics display screen which can display all kinds of parameter data and messages graphically.
- The contents can be presented abundantly and intuitively.
- Automatically identify all kinds of welding tools and load corresponding parameters.
- The software can adjust the temperature automatically which is more accurate and convenient.
- Fault display and alarm functions available
- Functions such as standby, buzzer ringing, temperature lock and factory data reset available
- Support communication interface. It can access to a computer, and complete various settings following the specified program.
- Vacuum desoldering pen is added to facilitate dismantle the desoldering components.











Automatic identification

#### Specification:

Model	MS-900				
Voltage	AC(100V/110V/120V    220V/230V/240V) 50/60Hz (Optional)				
Total Power	900W				
Main unit	Hot Air Station	Soldering Station	Desolder	ing Station	Electronic Tweezers
Power	Heater 550W Air pump 25W	130W		er 150W, n pump 15W	100W
Handle	AP-552B	GT-Y130	GT-X1	50、GT-B001	GT-N100
Temperature range	150°C~500°C	150°C~500°C	300°C	~500°C	150°C~500°C
Standby	No Standby	200°C	30	00°C	200°C
Standby time	No function	1~120 minutes (0 i.e. standby deactivated)		minutes y deactivated)	1∼120 minutes (0 i.e. standby deactivated)
Air flow grades	23L/Min				
Noise	<52dB(A)				
Temperature stability	±5℃	±2°C	±	2°C	±2°C
Temperature compensation	- 50~+50°C				
Lock setting	Available				
Tip to ground impedance		<2Ω			
Tip to ground voltage			<2mV		
Overall dimension		310	(L)x251(W)x119	(H)	
Weight	N.W.: 14KG G.W.: 16KG				
Package:	Main unit: 1 setBlow-dryer bracket: 1 pcDesoldering gun front plug: 2 pcAir gun of soldering station: 1 pcScrew: 2 pcsDesoldering gun O-ring 6x1.5: 2Soldering iron stand: 1 pcsSuction disk: 11 pcsDesoldering gun O-ring: 2 pcsDesoldering station handle: 1 pcSpring: 3 pcsDesoldering tube liner: 1 pcElectric tweezer handle: 1 pcSuction nozzle: 3 pcsFilter cotton: 10 pcsDesoldering gun handle: 1 pcDesoldering nozzle: 3 pcsDust-absorbing sponge: 10 pcsDesoldering pen handle: 1 pcNozzle: 4 pcsAnti-ironing mat: 1 pc			n O-ring 6x1.5: 2 pcs n O-ring: 2 pcs pe liner: 1 pc D pcs g sponge: 10 pcs ning pin): 1 pc	
Applicable	<ul> <li>Institutes/Enterprises</li> <li>Education and practice</li> <li>Maintenance</li> <li>Hobby</li> </ul>				

## GT Series Accessories

#### GT-Y050 50W Mini Soldering iron

50W mini soldering iron, suitable for small welding components

#### GT-Y130 130W Soldering iron

130W middle size soldering iron, suitable for most welding components

### GT-Y150

150W High- power Soldering iron

150W high- power soldering iron with sufficient heat energy, suitable for welding large bonding pad and weldments

### GT-N100 100W Tweezers handle

With soldering and desoldering function, suitable for soldering and desoldering various SMD devices

#### GT-X150 150W Desoldering gun

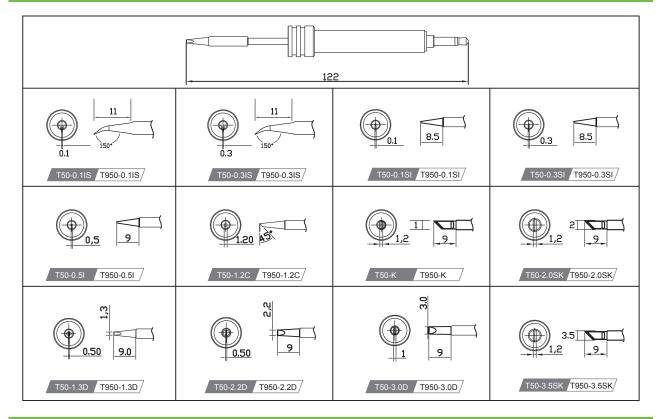
High power, heating up quickly, minimize damage to PCB boards. New design with replaceable nozzle, heat conducting quickly, high efficiency and low cost



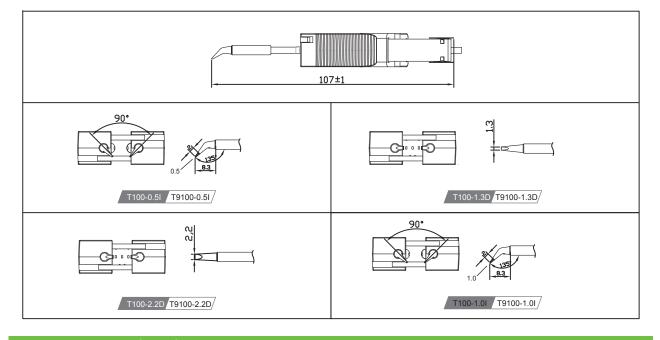


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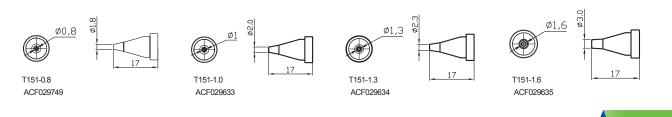
#### Integrated heater (50W)



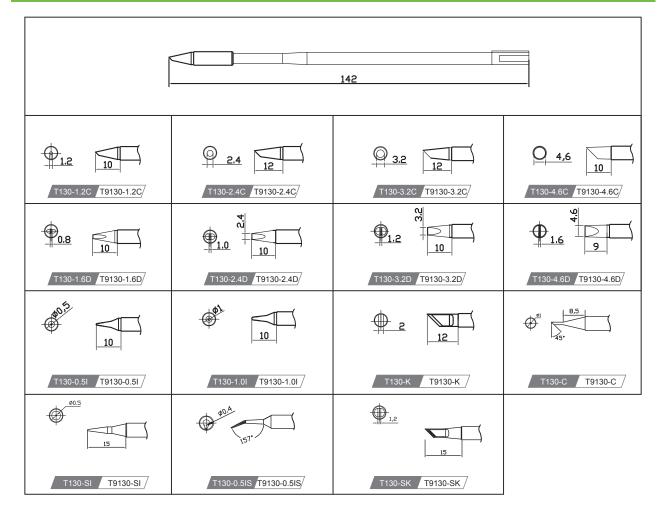
Integrated heater (100W)



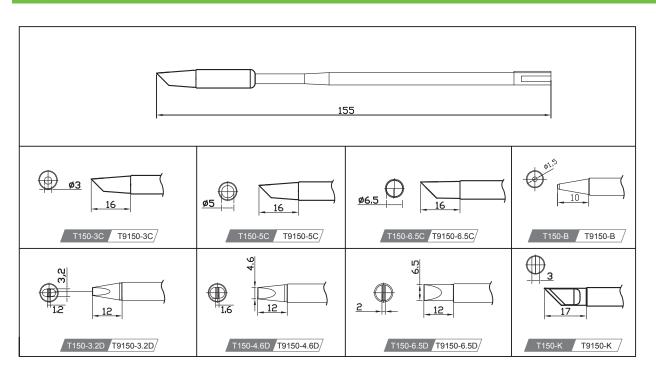
Desoldering Nozzles (T151)



#### ATTEN www.atten.com -10-



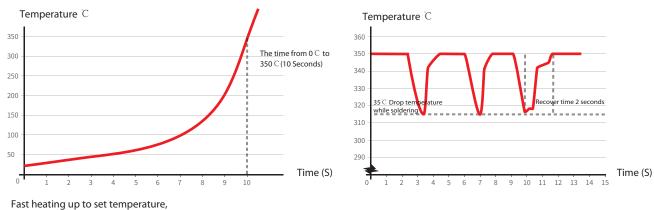
#### Integrated heater (150W)



### GT Series Soldering handles Performance Test

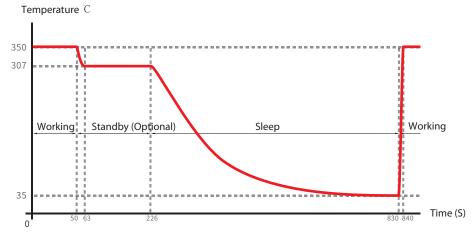
#### HEATING UP TIME TEST

#### DROP TEMPERATURE RECOVER TIME CONTROL CURVE



speed up working efficiency.

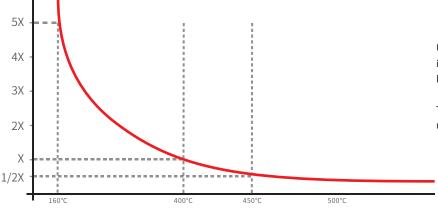
#### AUTO STANDBY & AUTO SLEEP ILLUSTRATION



• After put handle on holder, standby function can automatically reduce the temperature of nozzle.

- Once reached standby time, the machine will enter auto sleep mode.
- Once power off, the temperature of nozzle will reduce to room temp.
- After power on, the temperature of nozzle quickly heating up to set temperature.

#### THE SERVICE LIFE OF NOZZLE CAN BE EXTENDED 5 TIMES AT MOST



Using the nozzle base on the temperature illustration, the service life of nozzle can be double extended.

The function of auto sleep, could protect nozzle to extend 5 times of service life.

ATTEN ww.atten.co -12-

### MS-300 疑定 3 In 1 rework station



#### Specification:



Temperature range	100°C~480°C	80°C~450°C	Ripple and noise	CV≦0.5mVrms
Air flow	130L/min(Max),20L/min(Min)		Protection function	OCP(support automatically recovery)/OHP
Heater	Pluggable HR-2102A	Pluggable HS-3065A	USB interface	Fixed 5V output(±5%), maximum 2.1A output(overcurrent protection, stop outputting)
Soldering tip type	Nozzles:4 PCS	T900-0.2IS	Heat-dissipating method	Smart fan control
Working condition	Temp:0°C~40°C Humidity: <80%	Temp:0°C~40°C Humidity: <80%	Working condition	Temp:0∼40℃ Humidity: <80%
Storage condition	Temp:-20°C~80°C Humidity: <80%	Temp:-20°C~80°C Humidity:<80%	Storage condition	Temp:−20~70℃ Humidity: <80%
Dimensions	210x174x150(mm)	210x88x150(mm)	Size	210x80x150(mm)
N.W.	3.34kg	1.97kg	N.W.	2.4kg
Applicable	<ul> <li>Institutes</li> <li>Enterprises</li> <li>Education and praction</li> <li>Maintenance</li> </ul>	ctice		

Note: T900 series soldering tip details in page 30.

Hobby

#### **Hot Air Station ST-862D**



#### Features:

- LCD display screen making control visualization.
- Temperature unit switching function.
- Temperature locking ,timed work function.
- MCU controlled temperature calibration, compensation for constant working .
- Strong air volume with brushless fan.
- Easy to replace with pluggable heater.
- Convertible with straight air and spiral air.
- Auto-sleep function.

The standard nozzles : A-2605 A-2664 B-2608 B-2610 A-2600 nozzle converter

Note: ST-862D nozzles details in page 28.

#### **Soldering Station ST-965**



#### Features:

- Automatic standby, shutdown with smart time setting.
- Beep alarm function available.
- Temperature locking, temperature calibration and
- temperature alarming function.
- Password protecting function and temperature unite switching function
- MCU controlled temperature calibration.
- New design with LCD display screen making control visualization.
- Buttons(1,2,3) for pre-setting or switching frequently used temperature.

#### Power Suppy APS15-3A



#### Features:

- Controlled by MCU digital and series adjustment, low ripple, low noise and high stability.
- Designed with double types of tables, more suitable for telecommunication devices.
- Fast dynamic load response speed, optimized proceed for communication equipments.
- Support automatically recovered overcurrent protection(OCP) and overheating function(OHP).

ATTEN

 Independent USB interface, which can provide current 2.1A output, support overcurrent and short circuit protection.





#### Specification:



Item No	ST-862D	ST-1509		APS22-5A
Power	1000W	150W		125W
Temperature range	100°C~480°C	80°C~480°C	Ripple and noise	CV≦0.5mVrms
Air flow	130L/min(Max),20L/min(Min)		Protection function	OCP(support automatically recovery)/OHP
Heater	Pluggable HR-2102A	Integrated	USB interface	Fixed 5V output(±5%), maximum 2.1A output(overcurrent protection, stop outputting)
Soldering tip type	Nozzles:4 PCS	T950-0.1IS	Heat-dissipating method	Smart fan control
Working condition	Temp:0°C~40°C Humidity: <80%	Temp:0°C~40°C Humidity: <80%	Working condition	Temp:0∼40℃ Humidity: <80%
Storage condition	Temp:-20°C~80°C Humidity: <80%	Temp:-20°C~80°C Humidity: <80%	Storage condition	Temp:−20~70℃ Humidity: <80%
Dimensions	210x174x150(mm)	210x88x150(mm)	Size	210x80x150(mm)
N.W.	3.34kg	3kg	N.W.	2.4kg
Applicable	<ul> <li>Institutes</li> <li>Enterprises</li> <li>Education and prace</li> <li>Maintenance</li> <li>Hobby</li> </ul>	ctice		

Note: T900 series soldering tip details in page 30.

#### **Hot Air Station ST-862D**



#### Features:

- LCD display screen making control visualization.
- Temperature unit switching function.
- Temperature locking ,timed work function.
- MCU controlled temperature calibration, compensation for constant working .
- Strong air volume with brushless fan.
- Easy to replace with pluggable heater.
- Convertible with straight air and spiral air.
- Auto-sleep function.

The standard nozzles : A-2605 A-2664 B-2608 B-2610 A-2600 nozzle converter

Note: ST-862D nozzles details in page 28.

#### Soldering Station ST-1509



#### Features:

- Design with LCD display screen making control visualization.
- Buttons(1,2,3) for pre-setting or switching frequently used temperature.
- Auto sleep ,auto standby ,auto shutdown function to keep soldering work safer and extend machine lifespan .
- Has temperature locking, temperature calibration ,temperature alarming
- ,auto shutdown heating , password protecting function .
- $\bullet$  Temperature read out in  $\,{}^{\circ}\!\!\!C$  and  $\,{}^{\circ}\!\!\!F$  .
- Compatible with various type of soldering tools .
- Heating-up very fast with replaceable integrated heater.

Note: Integrated heater details in page 8–9.(T950/T9100/T9130/T9150)

#### Power Suppy APS22-5A



#### Features:

- Controlled by MCU digital and series adjustment, low ripple, low noise and high stability.
- Designed with double types of tables, more suitable for telecommunication devices.
- Fast dynamic load response speed, optimized proceed for communication equipments.
- Support automatically recovered overcurrent protection(OCP) and overheating function(OHP).

ATTEN

• Independent USB interface, which can provide current 3A output, support overcurrent and short circuit protection.









#### Features:

• Design with LCD display screen making control visualization.

• Buttons(1,2,3) for pre-setting or switching frequently used temperature.

• Auto sleep ,auto standby ,auto shutdown function to keep soldering work safer and extend machine lifespan.

• Has temperature locking, temperature calibration

,temperature alarming ,auto shutdown heating , password protecting function.

- $\bullet$  Temperature read out in  $\,{}^\circ\!\!C$  and  $\,{}^\circ\!\!F$  .
- Compatible with various type of soldering tools .
- Heating-up very fast with replaceable integrated heater.

heater

#### Specification:

Item No	ST-1509		
Voltage	AC(100V/110V/120V    220V/230V/240) 50/60Hz		
Power	150W		
Temperature range	80°C~480°C		
Temperature accuracy	±10°C		
The handle type	Y950 /Y9130 /Y9150 /N9100 optional		
Soldering tip/Heater	T950-0.1IS T950-2.0SK / T9130-1.0I T9130-K / T9150-K T9150-B / T9100-0.5I optional		
Soldering stand	S-13		
Package list	Main unit: 1unit Iron Stand: 1PCS Manual: 1 PCS Iron Handle Set: 1PCS AC cord: 1 PCS integrated heater with tip: 2 PCS		
Standard Packing	Inner box: 28.2x21x18.7(cm) N.W.: 3kg G.W.: 3.3kg Carton: 6PCS/Carton Size: 43.5x30x58(cm) N.W.: 19.8kg G.W.: 20.8kg		
Applicable	<ul> <li>Production line</li> <li>Education and practice</li> <li>Institutes</li> <li>Maintenance</li> <li>Hobby</li> </ul>		

Note: Integrated heater details in page 10-11.(T950/T9100/T9130/T9150)



## ST-1503/ST-1503D 歸程

High frequency soldering station



#### Features:

• All kinds of parameter data and information in the form of graphics display.

MCU controlled temperature calibration,

compensation for constant working .

• High power and Great thermal recovery.

• Provide 3 groups shortcut temperature to simplify operations.

• Temperature read out in  $^{\circ}C$  and  $^{\circ}F$ .

• Intelligent temperature calibration function.

• Intelligent temperature control fan, suitable for high-intensity work

ST-1503D With RS485 communication interface

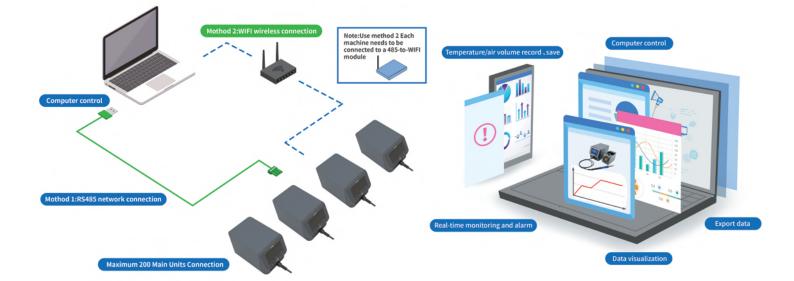
Specification:

Item No ST-1503 ST-1503D Voltage AC(100V/110V/120V || 220V/230V/240) 50/60Hz 150W Power Temperature range °C~600℃ T500-4C Soldering tip SP-H150 The handle type Heater HS-3150H **ITO Function** No Yes Tip-to-ground impedance: <2Ω Tip-to-ground voltage: <2mV Inner box: 29x26x18.5(cm) N.W.: 5kg G.W.: 5.5kg Standard Packing Carton:4PCS/Carton Size: 30.5x53.5x39.5(cm) N.W.: 22kg G.W.: 23kg • High frequency and high power, fast temperature recovery, suitable for soldering big solder joints Suitable for soldering and desoldering the big solder joints in industrial products Applicable • Widely used in the production line of all the kinds of enterprises

Note: T500 series soldering tip details in page 21.

## IOT Function ST-1503D





### Intelligent management platform

TTEN

Soldering station built-in 485 communication module(Wireless communication module can also be installed), can be docked with intelligent management platform software system, Realization: interconnected real-time monitoring, process preservation and copying, data storage and traceability, statistical analysis and management, monitoring and alarm prompts, remote control.

### ST Series Soldering Station 🚑



#### Features:

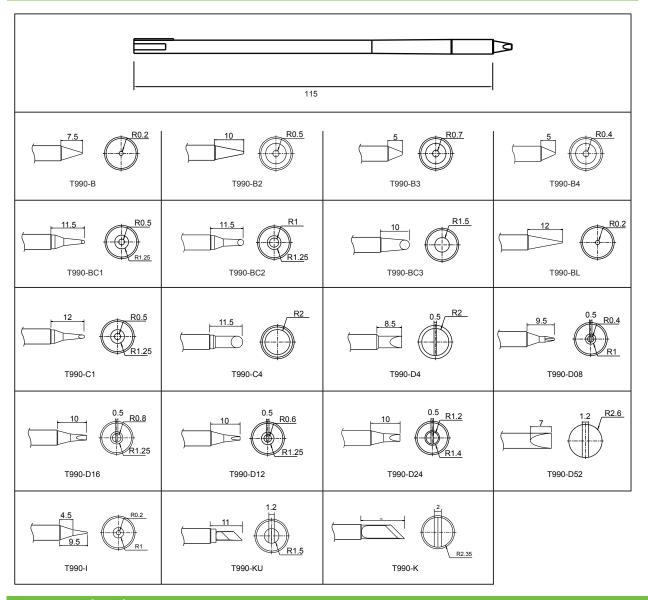
- Temperature locking.
- Beep alarm function available.
- MCU controlled temperature calibration.
- User-friendly menu enables system setting easier.
- Separate iron stand to save room and to make easier deposit.
- Buttons(1,2,3) for pre-setting or switching frequently used temperature.

• Low-voltage heater separated from power supply to keep soldering work safer.

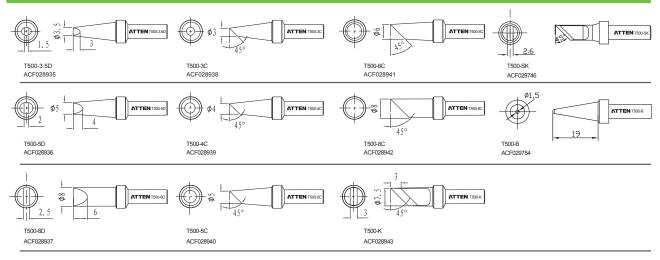
Specification:		soldering work saler.	
Product pictures			
ltem No	ST-80	ST-909	ST-100
Voltage	AC(100V/1	10V/120V    220V/230V/240) 50/60Hz	
Power	80W	90W	100W
Temperature range	150°C~480°C	200°C~500°C	150°C~480°C
Temperature Stability	±2°C(in still air,no load)	±2°C(in still air, no load)	±2°C(in still air, no load)
The handle type	SP-80	SP-990	SP-100
Soldering tip type	Т900-В	Т990-К	T800-0.25I
Heater	High performance four-core ceramic heater HS-3080	Integrated heater	Sliver alloy heater HS-3100
Package list		stand: 1 PCS Manual: 1 PCS Cleaning sponge	: 1 PCS
Standard Packing	Inner box: 31.5x27x15.2(cm) N.W.: 2.09kg G.W.: 2.32kg Carton: 6PCS/Carton Size: 55.5x33x48(cm) N.W.: 14.4kg G.W.: 15.4kg	Inner box: 24.6x22.4x14.2(cm) N.W.: 2.2kg G.W.: 2.4kg Carton: 8PCS/Carton Size: 50.7x46.3x30.9(cm) N.W.: 19.2kg G.W.: 20.0kg	Inner box:31.5x27x15.2(cm) N.W: 2.68kg G.W.: 2.95kg Carton: 6PCS/Carton Size: 55.5x33x48(cm) N.W: 17.9kg G.W.: 19.0kg
Applicable	<ul> <li>Institutes</li> <li>Enterprises</li> <li>Education and practice</li> <li>Maintenance Hobby</li> </ul>		

Note: T800 series soldering tip details in page 22. T990 series soldering tip details in page 21. T900 series soldering tip details in page 29.

#### Soldering tips (T990)

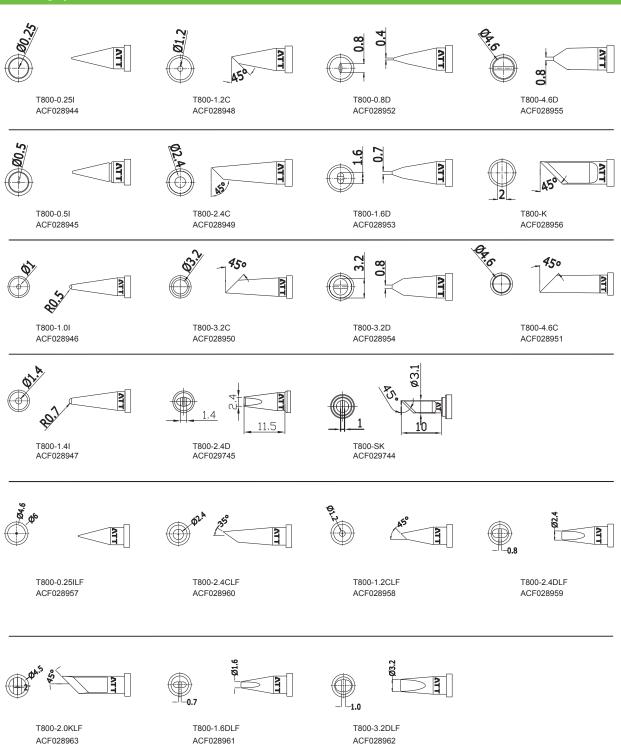


#### Soldering tips(T500)



ATTEN www.atten.com -21-

#### Soldering tips (T800)



ATTEN www.atten.com -22-

### **ST-2090D** Multifunctional Soldering Station



#### Features:

- This product designed with digital led segmented display
- Combined soldering station with soldering stand.
- MCU controlled temperature calibration with PID system
- equipped, adjust temperature by knob button, easy to operate.
- The handle structure is ergonomically designed for comfortable grip.
- The heating wire and sensor are made of PTC material,

which is quick in temperature rise and precise in temperature control.

- Auto-standby, auto-shut down is available.
- Using 3 cored power cable.

High quality four-core wire heater HS-2065A

#### Specification:

Item No	ST-2090D			
Voltage	110/240V AC			
Power	80W			
Temperature range	80°C~480°C			
Temperature accuracy	±15°C			
Temperature Stability	±2°C(in still air, no load)			
Temperature unit	°C/°F			
Soldering tip type	Т900-В			
Package list	Main unit (including machine, power cable and handle)x1pc Soldering wire holder x 1pc User manual x 1pc			
Standard Packing	Inner box: 20x18x12.5(cm) N.W.: 0.7kg G.W.: 0.91kg Carton: 12PCS/Carton Size: 41.5x37.5x39(cm) N.W.: 11kg G.W.: 11.8kg			
Applicable	<ul> <li>Production line</li> <li>Education and practice</li> <li>Institutes</li> <li>Maintenance</li> <li>Hobby</li> </ul>			

Note: T900 series soldering tip details in page 30.



### AT-937 疑程

ESD Safe Constant Temperature Controllable Soldering Station

### AT-989 疑程

ESD Safe Constant Temperature Controllable Soldering Station



ESD Safe Constant Temperature Controllable Digital Soldering Station







#### Features:

• MCU controlled temperature calibration with PID system equipped.

• The heater using low voltage AC source to ensure the antistatic and no leakage, no interference.

• Legerity handle suitable for long time operation.

• Unique temperature locks setting to avoid adjusting temperature.



Four core stainless steel heater HS-3050

Pluggable four-core wire heater HS-3065

High quality four-core wire heater HS-3060

#### Specification:

Item No	AT-937	AT-989	AT-989D
Voltage	AC(100V/110V/120V    220V/230V/240) 50/60Hz		
Power	50W	65W	65W
Temperature range	200°C~480°C	200°C~480°C	80°C~480°C
Temperature Stability	$\pm 2^{\circ}$ C(in still air, no load)	±2°C(in still air,no load)	±2°C(in still air,no load)
The handle type	AP-50	AP-65A	AP-60A
Soldering tip type	Т900-В	Т900-В	Т900-В
Heater	Four core stainless steel heater	High quality four-core wire heater	High quality four-core wire heater
Package list	Main unit: 1unit         Iron stand: 1 PCS         Manual: 1 PCS           Handle set : 1 PCS         AC cord: 1 PCS         Cleaning sponge: 1 PCS		
Standard Packing	Inner box: 25x21x13.4(cm) N.W.: 1.73kg G.W.: 2.00kg Carton: 12Carton/Carton Size: 51.5x44x43(cm) N.W.: 24.0kg G.W.: 25.0kg		
Applicable	<ul><li>Production line</li><li>Education and practice</li></ul>		Enterprises Hobby

Note: T900 series soldering tip details in page 30.



## ST-8800D



A-2000 nozzle converter for alll nozzles of AT-852D,

A-2102

A-2105

AT-850D and AT-8502D



- Large LCD screen; Temp/Air adjust easily.
- Touch sensor inside, auto sleep function will take effect when hot air gun placed on the stand.
- Use brushless vortex fan making cyclone air output more gentle and evenly.(Offer 4 nozzles).
- Has automatic large air volume cooling function, effectively protect the life of heating core and handle.
- Has independent cold air function, can deal with special use purpose.
- Three sets of quick temperature keys, can be set and save independently, use easily.
- Has password protection and key lock function, make control easily.

• With timing function and temperature compensation function, make use flexibly.

Spe	CITI	ca	101	11
Spe		C u		•••

A-2104

A-2131

Item No	ST-8800D		
Voltage	AC(100V/110V/120V    220V/230V/240) 50/60Hz		
Power	800W		
Temperature range	100°C~500°C		
Temperature accuracy	±35°C		
Air flow	30-120L/Min		
Standby heater cooling function	Support		
Beep alarm function	Available		
Package list	Main unit: 1 unit         Hot air gun: 1 PCS         Manual: 1 PCS         Nozzle converter           Gun Holder : 1 PCS         AC cord: 1 PCS         Nozzles: 4 PCS		
Standard Packing	Inner box: 35.2x23x20(cm) N.W.: 1.56kg G.W.: 1.75kg Carton: 4PCS/Carton Size: 48x37x42(cm) N.W.: 7kg G.W.: 7.8kg		
Applicable	<ul> <li>Production line</li> <li>Education and practice</li> <li>Institutes</li> <li>Maintenance</li> <li>Hobby</li> </ul>		

heater HR-2700A

Nozzles details in page 30.









#### Features:

• Large LCD screen; Temp/Air adjust easily.

• Touch sensor inside, auto sleep function will take effect when hot air gun placed on the stand.

• Use brushless vortex fan making cyclone air output more gentle and evenly.(Offer 4 nozzles).

• Has automatic large air volume cooling function, effectively protect the life of heating core and handle.

• Has independent cold air function, can deal with special use purpose.

• Three sets of quick temperature keys, can be set and save independently, use easily.

• Has password protection and key lock function, make control easily.

• With timing function and temperature compensation function, make use flexibly.

Item No	ST-8802				
Voltage	AC(100V/110V/120V    220V/230V/240) 50/60Hz				
Name	Hot air s	station		Soldering station	
Total Power	800	V		65W	
Temp range	100°C~500°C/21	2°F~932°F	80°C	80°C~480°C/176°F~896°F	
Temp stability	±5°C			±2°C	
Air flow	120L/min				
The handle type	AP-800B			SP-65A	
Soldering tip				T900-0.2SI	
Package list	Main unit: 1unit Gun Holder : 1 PCS	Hot air gun: 1 PCS AC cord: 1 PCS	Manual: 1 PCS Nozzles: 4 PCS	Iron Handle Set: 1PCS Iron Stand: 1PCS	
Standard Packing	Inner box: 29.5x24.8x18.8(cm) N.W.: 2.75kg G.W.: 3kg Carton: 6PCS/Carton Size: 48x37x42(cm) N.W.: 18kg G.W.: 18.8kg				
Applicable	<ul><li>Institutes</li><li>Maintenance</li></ul>	<ul><li>Enterprises</li><li>Hobby</li></ul>	• Education and pra	actice	

Nozzles details in page 30.

## AT852D 疑 認

Lead-free & ESD Safe Premium Digital Hot Air Station







#### Features:

- Closed-loop and MCU zero crossing design for achieving fast heating-up, accurate and stable control.
- High power diaphragm pump with high pressure make it suitable for various nozzles.
- Patented heater for obtaining fast heating-up and extending lifespan.



Lead-free & ESD Safe Premium Digital Hot Air Station



Spiral heater HR-2550

#### Specification:

Item No	AT852D	AT850D		
Voltage	AC(100V/110V/120V    220V/230V/240) 50/60Hz			
Power	550W	550W		
Temperature range	100°C~500°C	100°C~500°C		
Air flow	23L/min	23L/min		
The handle type	AP-550B+	AP-550B+		
Pump	Diaphragm pump	High power diaphragm pump		
Timing function	No function	20~600s		
Noise	<50dB(A)	<50dB(A)		
Package list	Main Unit: 1PCS         Hot Air Gun: 1PCS         Manual: 1PCS           Gun Holder: 1PCS         AC Cord: 1PCS         Nozzle: 2PCS	Main Unit: 1PCS         Hot Air Gun: 1PCS         Manual: 1PCS           Gun Holder: 1PCS         AC Cord: 1PCS         Nozzle: 4PCS		
Standard packing	Inner box: 33x27.2x19.5(cm) N.W.: 3.8kg G.W.: 4.2kg Carton: 6PCS/Carton Size: 56x35x61.5(cm) N.W.: 22.5kg G.W.: 23.8kg	Inner box: 33x27.2x19.5(cm) N.W.: 3.58kg G.W.: 3.87kg Carton: 6PCS/Carton Size: 56x35x61.5(cm) N.W.: 23.2kg G.W.: 24.3kg		
Applicable	• Enterprises	<ul><li>Institutes</li><li>Education and practice</li><li>Hobby</li></ul>		

Nozzles details in page 31.



## AT8502D 歸

2-in-1Intelligent Lead-free LCD Digital Rework Station

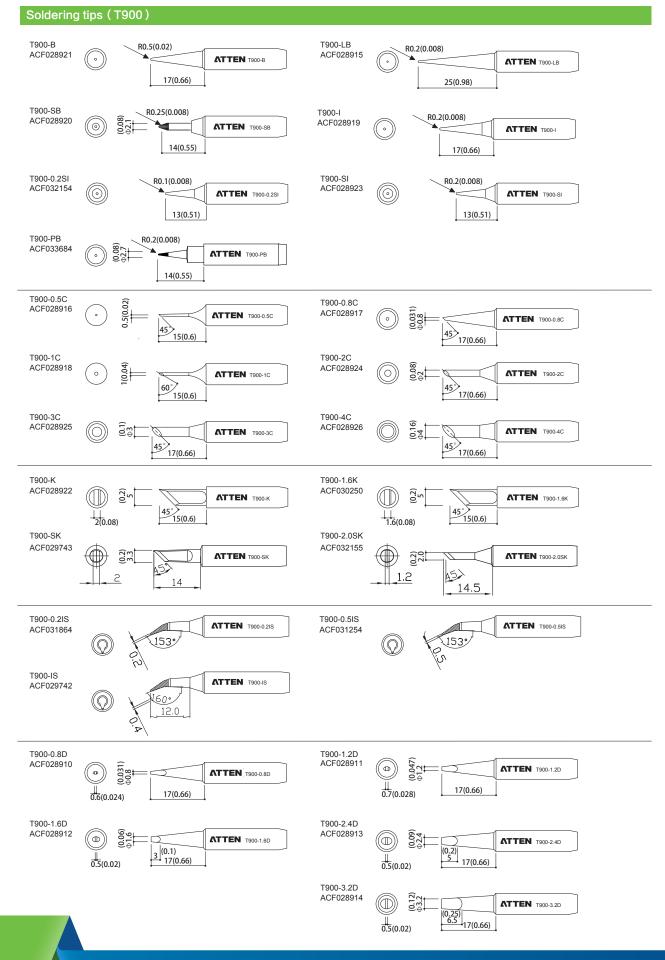


#### Features:

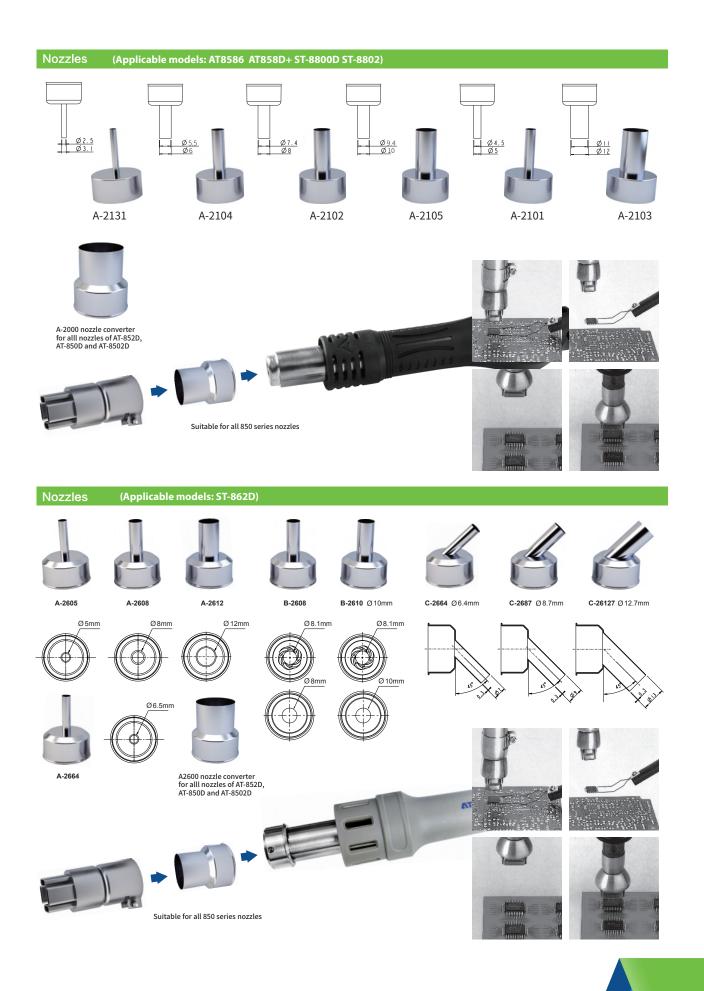
- MCU and PID algorithm controlled temperature be more accurate.
- Digital temperature calibration and switchable temperature units make it versatile.
- Diaphragm pump with high pressure make it suitable for various nozzles.
- Intelligence cooling system and deferred power-off function to extend handpiece lifespan.
- Patented heater for obtaining fast heating-up and extending lifespan.
- Automatic standby function to save more energy.

Item No	AT-8502D		
Voltage	AC(100V/110V/120V    220V/230V/240) 50/60Hz		
Total Power	70	ow	
Name	Soldering station	Hot air station	
Power	50W	550W	
Temperature range	200°C~480°C	100°C~500°C	
Pump		Diaphragm	
Air flow		23L/min	
The handle type	AP-50	AP-551B	
Soldering tip	Т900-В		
Noise		<50dB(A)	
Package list	Main Unit: 1PCS       Hot Air Gun: 1PCS       Manual: 1PCS         Gun Holder: 1PCS       AC Cord: 1PCS       Nozzle: 4PCS	Iron Handle Set: 1PCS Iron Stand: 1PCS	
Standard packing	Inner box: 35.4x33x19.4(cm) N.W.: 4.85kg G.W.: 5.31kg Carton: 4PCS/Carton Size: 68x38x42(cm) N.W.: 21.2kg G.W.: 22.3kg		
Applicable	<ul> <li>Thermoplastic soldering</li> <li>Education and practice</li> <li>On-site soldering for PVC/PE/PP/PVDF etc.</li> <li>Maintenance</li> </ul>		

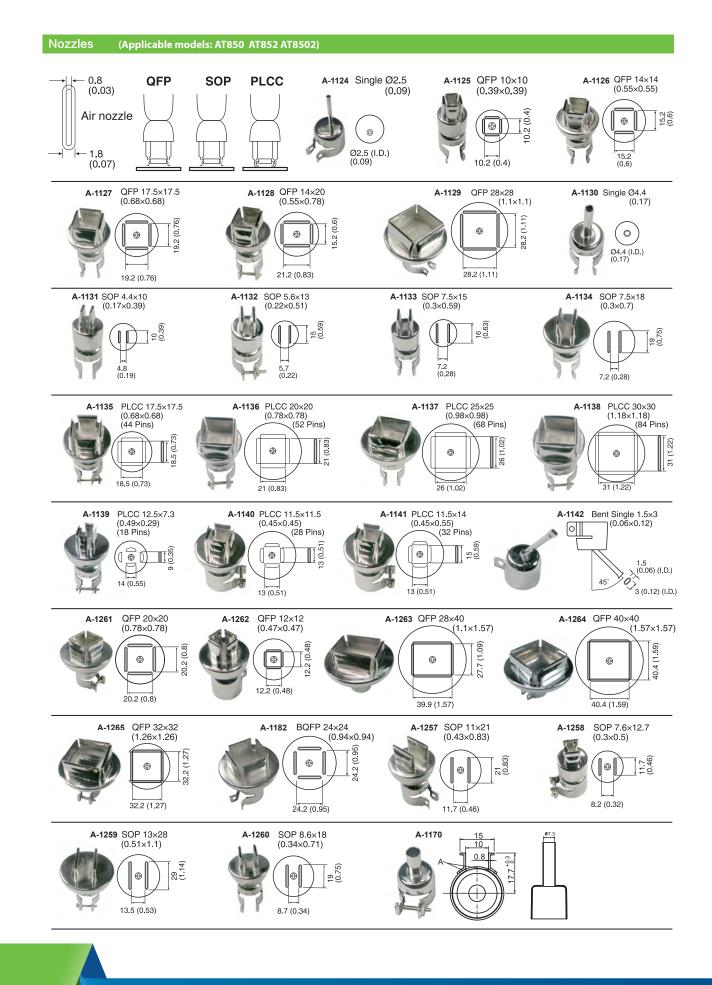
Nozzles details in page 31.



### ΔΤΤΕΝ



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ATTEN www.atten.com -31-

### Handle of Soldering station and Hot air station

Category	Item No	Pictures	Applicable models
	AP-50		AT-937/AT-8586/AT-8502D ROHS
	AP-65		AT-937A(Pluggable heatering element) ROHS
	AP-65A		AT-989/AT-989D ROHS
	SP-65A		ST-8802 ROHS
	SP-60		ST-60 ROHS
	SP-80		ST-80 ROHS
	SP-100		ST-100 ROHS
The soldering station handle	SP-990		ST-909 ROHS
	AP-60		AT-938D ROHS
	AP-80		AT-980E ROHS
	SP-65		ST-965(Pluggable heatering element) ROHS
	SP-90B		ST-2090D ROHS
	Y-950	-	ST-9150(Integrated) 50W ROHS
	Y-9130		ST-9150(Integrated)130W ROHS
	Y-9150		ST-9150(Integrated)150W ROHS
	N-9100	- The second sec	ST-9150(Integrated Tweezers)100W ROHS
	SP-H150		ST-1503(Integrated Tweezers)100W ROHS
	AP-700B		AT-858D+/AT-8586 ROHS
The bet siz	AP-550B+		AT-850D/AT-852D ROHS
The hot air station handle	AP-551B	1 A 12	AT-8502D ROHS
	AP-552B	n	MS-900 ROHS
	AP-102B		ST-862D ROHS
	AP-800B		ST-8800D/ST-8802 ROHS

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### GT-2010+ USB Soldering Iron



Item No	GT-2010+			
Voltage	5V DC			
Power	10w			
Temperature range	100 °C ~450 °C			
Temperature Stability	±2 C (in still air, no load)			
Heater	10W integrated heater (T10-0.5I)			
Temperature offset range	±50°C/±90°F			
Auto-sleep mode	Support			
Package list	Manual: 1PCS Certificate of quality: 1PCS USB Soldering iron:1 Unit Soldering iron stand: 1PCS			
Standard Packing	Inner box : 31x15x9(cm) N.W. : 0.56kg G.W. : 0.6kg Carton : 18pcs/carton Size : 46.5x32.5x54.5(cm) N.W. : 10kg G.W. : 10.8kg			
Applicable	<ul> <li>Production line</li> <li>Education and practice</li> <li>Institutes</li> <li>Maintenance</li> <li>Hobby</li> </ul>			

Note: T10 series soldering tip details in page 35.



# **ST Series Soldering Iron**



### Features:

- Automatic sleep after 10 minutes inactivity.
- Automatic shut down after 20 minutes inactivity.
- Build in PID system.
- Shortcut temperatures adjust by button.
- LCD / LED display design.
- ESD safe

• Soldering tip designed separate from heater and using exchangeable T2080, T2150, T900 series to save use-cost.

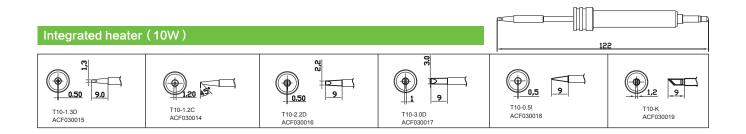


Optional soldering iron stand S-11

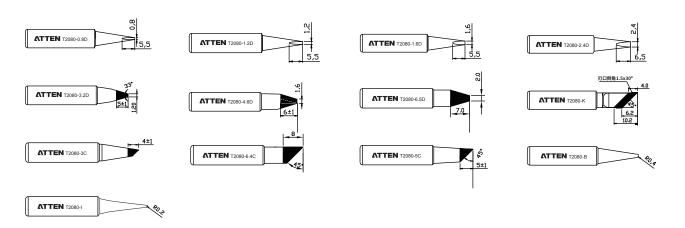
#### Specification:

Pictures		and the second s		and the second sec	and the second s
Item No	ST-2065D	ST-2080	ST-2080D	ST-2150	ST-2150D
Power	65W	80W	80W	150W	150W
Temperature range	80°C~480°C	5set adjustment	80°C~480°C	5set adjustment	80°C~480°C
Temperature stability	±2°C	±2°C	±2°C	±2°C	±2°C
Heater	Four-core PTC heater HS-2065D	Four-core PTC heater HS-2080	Four-core PTC heater HS-2080	Four-core PTC heater HS-2150	Four-core PTC heater HS-2150
Heating indication	Blue LED	Blue LED	Blue LED	Blue LED	Blue LED
Temperature unit	°C/°F	°C	°C/°F	°C	°C/°F
Display method	LCD	LED	LCD	LED	LCD
Soldering tip	Т900-В	T2080-B	Т2080-В	T2150-B	Т2150-В
Package list	Soldering Iron:	1 Unit Iron hold	er: 1PCS Ma	nual: 1 PCS	
Standard Pcaking	N.W.: 0.21kg	-		n n)	

Note: T2080, T2150 series soldering tip details in page 35; T900 series soldering tip details in page 29.



#### Soldering tips (T2080)



#### Soldering tips (T2150) 4±1 **ATTEN** T2150-3.2D **ATTEN** T2150-3C **ATTEN** T2150-4.6D 20 **ATTEN** T2150-5C 刃<u>口倒角1.5x30°</u> 4.0 **ATTEN** T2150-6.5D **ATTEN** T2150-7C **ATTEN** T2150-B 45. 7±1 **ATTEN** T2150-K **ATTEN** T2150-I P.2

# Solder Stand

ATTEN ww.atten.com -35-



# S-11

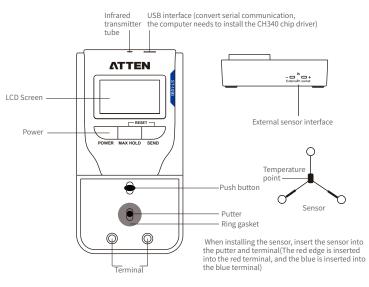
- All-metal construction.
- Portable solder stand which helps.

S-11

- Work more convenience.
- The tilt angle is adjustable.

# Temperature tester ST-1090





#### Specification:

Model	ST-1090		
Resolution	1°C/1°F		
Temperature range	0-800°C/32-1500°F		
Accuracy Temperature	±5°C/±9°F		
Sensing wire	K-type thermocouple		
Display	LCD		
Power	9V DC High-performance carbon battery		
Operating environment	0°C~40°C/32°F~104°F		
Size	75x143.5x41.5mm		
Weight	185g		
Package list	Host ST-1090:1 Battery: 1 K-type thermocouple test wire:1 Sensor : 10 MINI USB data line 1 Manual: 1		



Temperature infrared transmission function, can be used with ST-1503, Implement temperature correction.

#### A serial port function

The serial port data line is connected to the thermometer and the computer, the thermometer displays COM as shown in Figure 4-2; the thermometer sends to the computer every 100ms temperature data.



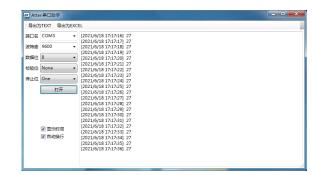
ATTEN serial port assistant

Download ATTEN serial port assistant from the official website(You can also use other serial port assistants)

Note:convert serial communication, the computer needs to install the CH340 chip driver



Figure4-2 (Serial communication baud rate 9600)



ATTEN serial port assistant interface



# FT-90A

• Made up of steel base, movable mechanical arm, fixed frame and magnifying glass, adjust proper height.

• The components can be adjusted in any direction.

• Use for observation / repair / circuit board (especially high-density, precision circuit board) welding of small objects as an extensive maintenance tool.

Magnification times:	3x
Diameter of glass:	about 9cm
Туре:	Multi-direction
Weight:	516g



### Solder Smoke Absorber



# ST-1016/ST-1016-CP

- Desktop-type with vertical and horizontal dual-use.
- Remove soldering smoke and fumes quickly and safely.
- Highly activated carbon material with strong absorb function.
- LED lighting function.

ESD safe

#### Test Data

TTEN

Test Item	Test Data	
Air volume (vertical) m³/min	1.03	
Air Volume (horizontal) m³/min	0.4	
Air flow (vertical) m/s	1.0	
Air flow (horizontal) m/s	2.6	
Maximum suction capacity m³/min	1.03	



Product pictures				
Model number	JQ-050	JQ-100A		
Voltage	110V~	-240V		
Power	50W	100W		
High temperature	180°C	200°C		
Glue stick	¢7mm	φ 11mm		





φ 11mm

φ7mm

JQ-010



• Power: 8-10W

• High temperature: 180°C

Tweezers	AT-110	AT-111	AT-113	AT-114	AT-115
AT-110		AT-11	3		AT-115
AT-111		AT-11	4	TWEEZER ATTEN安泰语 (gen Package	Ner's partner

ATTEN www.atten.com -38-



# CS-05B

#### For cleaning soldering tips.

The soldering tip is cleaned by wiping or turning it in the metal wool. subsequently, a fine solder layer will remain which prevents fast oxidation of the soldering tip, and represents a considerable advantage compared to standard sponge cleaning.

#### Caution

keep the product away from children. Only use the metal wool to clean soldering tips. Remove the soldering tip from the metal wool directly after cleaning.

**Tin Slag Box** 

ATTEN

CS-05B

CS-08B



# CS-08B

• Special for lean soldering tip and recycling tin residue Anti-static / high temperature resistance.

-

• Pour out the tin block easily.

• Improving the problem of throwing tin while soldering, dirty and messy working environment, convenient to mass collect and take out after collecting, etc.

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## **Soldering Wire**





Including rosin

ATTEN www.atten.com -40-

## **Solder Wire Stand**



# TJ-227

- Metal sheet base.
- The shaft can support 1kg soldering.
- The Shaft easy to take off.
- Move flexible.

# TJ-228

- All-metal construction.
- Simple design.
- Soldering wire holder and sponge plate 3 in1.
- Save space, use easily.



## Solder Pot

### LT-360B LT-350B LT-380B LT-310B

Product pictures				
ltem	LT-360B	LT-350B	LT-380B	LT-310B
Power	150W	200W	250W	300W
Voltage	220V~240V	220V~240V	220V~240V	220V~240V
Temperature range	50~520°C	50~520°C	50~480°C	50~480°C
Solder capacity	0.3KG	0.5KG	1.6KG	2.2KG
Crucible Size	∮36mm	∮ 50mm	∮80mm	∮100mm
Melting time	10min	10min	20min	20min

### **Soldering Wick**



Including soldering flux



## **DESOLDERING TOOL**

#### AT-E330A AT-E330P AT-E210D



Vacuum pick-up tool

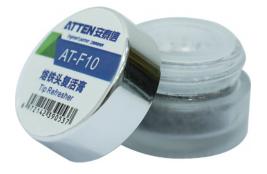


AT-B778

# AT-B778

Item	Size	Pcs	Other
Suction disc S-1	¢3mm	2	
Suction disc S-2	φ7mm	2	
Suction disc S-3	¢10mm	2	
Suction nozzle Y-1	/	1	Straight
Suction nozzle Y–2	/	1	Bent

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# AT-F10

- Remove oxidizing material from soldering tip and tin the tip again.
- Do not contain diammonium phosphate, no damage to circuit board.
- Environmental protection, no hazardous substance.
- It's reusable.

## **Rosin Flux**

#### TR-045



## TR-045 • Remove oxidation film.

- Prevent oxidation.
- Reduce surface tension.

Weight: 45g

Solder paste flux		AT-H20 AT-H40 AT-H60
AT-H20	AT-H40	AT-H60
SOLDER PASTE Ar-Han 助慎膏 20g		A LOS AND A LOS
Model AT-H20 Dimensions • 29x34	x101mm Model AT-H40 Dimens	sions +59x27mm Model AT-H60 Dimensions +72x28mm
G.W 20g N.W 10	g G.W 40g N.W	36g G.W 60g N.W 56g
Color Light yellow Certification ROI	HS Color Light yellow Certific	ation ROHS Color Light yellow Certification ROHS



## Wrist Strap

### AT-FJ1 AT-FJ2

# AT-FJ1



# AT-FJ2



- Strong anti-static . The wrist strap can dissipate the static electricity of the human body
- High safety performance. The wrist strap is made of thermoplastic material with light, Thin and soft, it is safe to contact with human skin and easy to use.
- $\bullet$  Strong resistance. the impedance of the wrist strap can reach  $10^4\,\Omega$

## Wrist Strap On-line Monitor







# AT-518-1

Output: 6V DC Size: 62x45x29(mm) Weight: 41g(excluding power adapter) Input: AC 220V Material: ABS Consumption: 1.8W

# AT-518-2

Output: 6V DC Size: 103x56x29(mm) Weight: 74g(excluding power adapter) Input: AC 220V Material: ABS Consumption: 1.8W

- When the grounding system of the human body wrist strap is working and operating normally:there is no voice and LED green light on.
- When the grounding system of the human body wrist strap is broken down: there is alarm voice and LED red light flashing.



# **APS15-3A/APS22-5A**

## COMMUNICATION MAINTENANCE DC REGULATED VOLTAGE POWER SUPPLY



# Overview

APS series communication maintenance power supply is designed for the needs of communication maintenance technicians, training schools and related engineering research and development personnel. The product adopts series type regulated voltage schemewith the current best stability and is controlled by digital MCU chip. It features very high stability and low ripple, simple operation and control, and all kinds of protection functions, especially suitable for use in the communication industry.



• College training education • Universal testing in R&D laboratory

• Maintenance of communications equipment

#### Technology specification and function features:

Model	APS15-3A APS22-5A			
Input Voltage	230VAC/115VAC(Optional)			
Rated output voltage	0-5V/0-15V (dual steps) 0-22V (continuously adjustable)			
Rated output current	0.5A/3A (dual steps)	0-0.5A/0-5A (continuously adjustable)		
Rated output power	56W (including USB interface output)	125W (including USB interface output)		
Ripple and noise	CV≦0.5mVrms	CV≦0.5mVrms(5Hz~1MHz)		
Line Regulation	CV≦0.01%+3mV	CV≦0.01%+3mV CC≦0.1%+3mA		
Load Regulation	CV≦0.01%+8mV CV≦0.01%+4mV(I<3A)			
set resolution	Voltage:3mV Voltage:3mV Current:1m			
Protection Function	OCP(support automatically recovery)/OHP	OCP(support automatically recovery)/ constant overcurrent/OHP		
Other Functions	coarse tuning/ fine tuning switch, 5V/ 15 switch, 0.5A/ 3A switch and parameters locking	coarse tuning/ fine tuning switch, 0.5A/5Aswitchand parameters locking		
USB interface	Fixed 5V output(±5%), maximum 2.1A output (overcurrent protection, stop outputting)	support QC quick charge agreement maximum 3A output		
Read Back Accuracy	LCD display:±(0.5±2digits) Cu	rrent pointer display: Class-2.5		
Heat-dissipating method	Smart fan control			
Working condition	Temp:0~40 <sup>°</sup> C Humidity: <80%			
Storage condition	Temp:-20~70 <sup>°</sup> C Humidity: <80%			
Size(WxHxD)	88*150*215(mm)			
N.W	2.5Kg 3.6Kg			

### Features

• MCU-Digital control, series adjustment mode control, low ripple, low noise, and high stability.

• The double-type head design is more suitable for the use of communication equipment products.

• Fast dynamic load response speed, optimized processing for communication equipment.

• The product is designed with cut-off self-recovery protection functionand over-temperature protection function.

• Independent USB interface, providing 3A current output capability, with over-current and short-circuit protection support QC quick charge agreement .

- Voltage and current are switched with two gears to adapt to different equipment.
- Built-in voltage gear automatic adjustment function, which can be more suitable for full load use.
- The digital encoder adjusts the voltage, and can switch between coarse adjustment and fine adjustment function, more precise control and longer service life.
- With output adjustment lock function, alarm prompt function, which can effectively prevent wrong operation.

ATTEN

• Intelligent fan control is automatically controlled according to the internal power device temperature.

# **TPR3003T/TPR3005T**

## LINEAR ADJUSTABLE DC REGULATED VOLTAGE POWER SUPPLY



- Electronic products testing, verification
- Equipment maintenance, aging
- College training education
- Automotive electronic circuit power supply testing aging
- Research and development technology laboratory general test



• It adopts LCD screen, high-precision double 4-bit voltage and ammeter head display, automatic calculation and display of output power.

- Rated range voltage, current continuously adjustable output.
   Constant voltage CV/ constant current CC mode automatically
- switch seamlessly.
- Voltage tracking output protection function, independent and perfect protection circuit.



- The product is designed with full power, super loading capacity, and can be used at full load for a long time.
- Enhanced heat dissipation system with long life double-ball fan ensure durable work, no protection.
- Panel door cover type protection to prevent wrong adjustment of parameters.

#### TPR series technology specification and function features:

Model	TPR3003T	TPR3005T			
Rated output voltage	0-30V				
Rated output current	0-3A	0-5A			
Power supply voltage	220V±10%,50HZ/60HZ (100V/	17V/200V/217V/234V optional)			
Operation condition	temperature: 0°C~40°C	relative humidity: <80%			
Storage condition	temperature-20°C~80°C	relative humidity: <80%			
Rated output power	90W	150W			
Power supply effect	CV≪0.01%+3mV	CC≤0.2%+1mA			
Load effect	CV≤0.01%+5mV CC≤0.2%+5mA	CV≤0.01%+7mV CC≤0.2%+7mA			
Ripple and noise	(5Hz~1MHz)CV≤0.5mVr.m.s CC≤3mAr.m.s	(5Hz~1MHz)CV≤1mVr.m.s CC≤5mAr.m.s			
Display	4 digits				
Voltmeter display precision	±0.5%rdg+2 bit				
Ammeter display precision	±0.5%rdg+2 bit				
High voltage test	leak current≤1mA(test condition AC-GND 1700VAC/2s)				
Insulation impedance	insulation impedance≥7MΩ((te	st condition AC-GND 500VDC/5s)			
Working method	constant voltage	/constant current			
Protection method	current-limiting, voltage reduction, short-circuit protection, over temperature protection, over voltage protection				
Heat-dissipating method	air cooling				
Size (WxHxD)	W125xH170xD275mm				
Standard Packing					
Inner box: 37.9x23x27.4(CM)	N.W.: 5KG G.W.: 5.3KG	N.W.: 6.2KG G.W.: 6.5KG			

# **TPR32-5A / TPR75-2A**

LINEAR PROGRAM-CONTROLLED ADJUSTABLE REGULATED VOLTAGE POWER SUPPLY



- Universal testing in R&D laboratory
- Pure power supply for radio frequency, microwave circuits or components
- Feature verification and fault diagnosis of devices or circuits
- Quality control and quality inspection
- Power supply for automotive electronic circuits
- Teaching experiments
- Production automation testing



- It adopts double four-position high-precision voltage, ammeter head
- and pure MCU digital control output for better stability and higher precision.
- Product constant voltage CV / constant current CC mode, which enables
- continuously adjustable output within the rated range.
- It can be converted to external control mode, external input control voltage, used to control the main power supply voltage and current output.
   It has extended master-slave parallel, series operation mode, which is
- more convenient for user to use series-parallel expansion.

• Provide 10 convenient and fast parameter storage functions (including OVP and OCP setting values), which is convenient for users to quickly and directly call the output

• Provide external monitoring function for main output voltage and .current parameters, which can be connected to a higher precision meter for display.

• It has functions of storable output parameters, status lock, and alarm.

• The intelligent cooling system adopts a double ball fan to automaticallycontrol the fan speed according to the internal temperature, making it quieter and longer-lived.

• Support computer program control, standard RS232 communication interface.

#### **Technology specification and function features:**

Model	TPR32-5A		TPR75-2A		
Power supply voltage		AC 240V/230V/2	220V/110V/120V Optional		
Rated output voltage	0~32V		0~75V		
Rated output current	0∼5A		0~2A		
Rated output power	160W		150	W	
Ripple and noise	CV≦0.5mVrms	CC≦1mArms	CV≦1mVrms	CC≦1mArms	
Power supply effect	CV≦0.01%+3mV	CC≦0.2%+3mA	CV≦0.01%+5mV	CC≦0.2%+2mA	
Load effect	CV≦0.01%+5mV	CC≦0.2%+3mA	CV≦0.01%3mV	CC≦0.2%+5mA	
Display accuracy	±(0.5%rdg+2	2 Digit)	Voltage: ±(0.5%rdg+3 Digit)	Current: ±(0.5%rdg+2 Digit)	
Protection functions	OVP/OCP/OHP Protection				
Heat-dissipating method	Intelligent speed regulation air cooling				
Operating temperature	Temp: 0~40 <sup>°</sup> C Humidity: <80%				
Storage temperature	Temp: -20~70 <sup>°</sup> C Humidity: <80%				
Size (WxHxD)	W125xH170xD260mm				
Standard Packing	Inner box: 34	4x20x25(cm)	N.W:4.3KG	G.W:5KG	



# TPR6005T/TPR6010T HIGH POWER CC/CV LINEAR POWER SUPPLY

Application

- Automotive electronic testing
- Photovoltaic new energy field
- Education, scientific research, laboratory
- Electromechanical field
- LED lighting field
- Other testing, product aging testing

### Features

- High-resolution voltage/current display (4-digit display).
- Low ripple, low noise and pure DC output, with high reliability.
- Both voltage/current adjustments use 10-turn high-precision potentiometer knobs.
- With constant voltage CV/constant current CC mode, continuously adjustable output within the rated range.
- Provide perfect protection function, the product is suitable for various environments.
- Intelligent heat dissipation, temperature control double ball fan, low noise heat dissipation.
- With remote compensation function, it can effectively ensure product accuracy when used remotely.

#### TPR series technology specification and function features:

Model	TPR6010T	TPR6005T			
Rated output power	600W	300W			
Rated output voltage	$0\!\sim\!60V$	0~60V			
Rated output current	0~10A	0~5A			
Power supply voltage	23074	AC/115VAC(Optional)			
Voltage					
Power supply effect		≦0.005%+1mV			
Voltmeter display precision		±(0.1%+2digits)			
display resolution		10mV			
Load effect		≦10mV			
Voltage ripple	0.8mV(rms)				
Current					
Power supply effect		≦1mA			
Voltmeter display precision	=	±(0.2%+2digits)			
display resolution		1mA			
Load effect		≦2mA			
Current ripple		≦4mA(rms)			
Protection functions	OVP/	OCP/OHP Protection			
Heat-diss-pating method	Intelligent s	peed regulation air cooling			
N.W	13.5KG 11KG				
Size(W*H*D)	270*178*350(mm)				





# **TPR3020T/TPR3010T**

HIGH POWER CC/CV LINEAR POWER SUPPLY

## Application

- Automotive electronic testing
- Photovoltaic new energy field
- Education, scientific research, laboratory
- Electromechanical field
- LED lighting field
- Other testing, product aging testing



- High-resolution voltage/current display (4-digit display).
- Low ripple, low noise and pure DC output, with high reliability.
- Both voltage/current adjustments use 10-turn high-precision potentiometer knobs.
- With constant voltage CV/constant current CC mode, continuously adjustable output within the rated range.
- Provide perfect protection function, the product is suitable for various environments.
- Intelligent heat dissipation, temperature control double ball fan, low noise heat dissipation.
- With remote compensation function, it can effectively ensure product accuracy when used remotely.

#### TPR series technology specification and function features:

Model	TPR3020T TPR3010T			
Rated output power	640W	320W		
Rated output voltage	0~32V 0~32V			
Rated output current	0~20A	0~10A		
Power supply voltage	230VAC/1	115VAC(Optional)		
Voltage				
Power supply effect	≦0.00	5%+1mV		
Voltmeter display precision	±(0.1%	6+2digits)		
display resolution	1	0mV		
Load effect	≦15mV	≦10mV		
Voltage ripple	0.8mV(rms)			
Current				
Power supply effect	≦2mA	≦1mA		
Voltmeter display precision	±(0.2%	G+2digits)		
display resolution	10mA	1 mA		
Load effect	≦3mA	≦2mA		
Current ripple	≦6mA(rms)	≦4mA(rms)		
Protection functions	OVP/OCP/OHP Protection			
Heat-diss-pating method	Intelligent speed regulation air cooling			
N.W	13.5KG 11KG			
Size(W*H*D)	270*178*350(mm)			





# KPS3030DA/KPS3050DA

HIGH POWER ADJUSTABLE DC REGULATED VOLTAGE POWER SUPPLY

# Application

- Automotive electronic testing
- Photovoltaic new energy field
- Education, scientific research, laboratory
- Electromechanical field
- LED lighting field
- Other testing, product aging use



The product has functions of adjustable constant voltage and constant current, and automatically switches state according to load.
Switching power supply structure, with features of high

power, high efficiency, light weight and strong load capacity. • Perfect protection function, short-circuit protection, over- temperature

protection, over-voltage protection.

•The voltage adjustment is made by multi-turn potentiometer, with higher adjustment accuracy.

•automatically High-power temperature-controlled fan dissipates heat according to the internal temperature of the machine.

• Full power design with high reliability.

#### KPS series technology specification and function features:

Model	KPS3030[	DA	KPS	3050DA			
Rated output voltage	0-30V						
Rated output current	0-30A	0-30A 0-50A					
Power supply voltage		220V±10%,	50Hz/60Hz				
Operation condition	temp	perature: 0°C~40°C	relative humidity: <80	)%			
Storage condition	tem	perature-10°C~70°C	relative humidity: <80	0%			
Rated output power	900W		15	500W			
Power supply effect		CV≪0.01%+3mV	CC≪0.1%+6mA				
Load effect	CV≤C	).01%+10mV(1≤10A	) CC≤0.1%+6mA(1≤1	0A)			
Ripple and noise	CV≤50mVr.m.s						
Voltmeter display precision	±(0.5% of rdng+2 digits)						
Ammeter display precision	±(0.5% of rdng+2 digits)						
High voltage test	leak cu	rrent≤1mA(test con	dition AC-GND 1700VA	C/2s)			
Insulation impedance	insulation ir	insulation impedance $\geq$ 7M $\Omega$ (test condition AC-GND 500VDC/5s)					
Working method	constant voltage/constant current						
Protection method	current-limiting, voltage reduction, short-circuit protection, over temperature protection, over voltage protection						
Heat-dissipating method	air cooling						
Size (WxHxD)	W260xH170xD380mm						
Standard Packing							
Inner box: 41x32x23 (CM)	N.W.: 6KG	G.W.: 6.3KG	N.W.: 7KG	G.W.: 7.3KG			



# **TPS300P**

## DC SWITCHING POWER SUPPLY



# Overview

TPS series power supply is a high-precision, high-reliability,constant-voltage, constant-current, constant-power switching linear regulated power supply. The product adopts innovative double voltage-regulated structure of switch regulated voltage + linear regulated voltage, and also features high efficiency and high power of switching power supply, and the low ripple and high reliability of the linear power supply.



Automated testing

• LED lighting field

• Education, scientific research, laboratory

• Electromechanical field • Other tests, product aging use

• Photovoltaic new energy field • Automotive electronic testing

## Features

- High precision voltage, ammeter head and pure MCU digital control output for better stability and higher precision.
- Dual voltage stabilizing structure, high efficiency, low ripple, low noise output.
- Product constant voltage CV / constant current CC mode, which enables continuously adjustable output within the rated range.
- It can be converted to external control mode, external input control voltage, used to control the main power supply voltage and current output.
- It has extended master-slave parallel, series operation mode, which is more convenient for user to use series-parallel expansion.
- Provide 10 convenient and fast parameter storage functions(including OVP and OCP setting values), which is convenient for users to quickly and directly call the output
- Provide OVP, OCP, OHP protection and alarm functions.
- Provide external monitoring function for main output voltage and current parameter.
- It has functions of storable output parameters, status lock, and alarm.
- The intelligent cooling system adopts a double ball fan to automaticallycontrol the fan speed according to the internal
- temperature, making it quieter and longer-lived.
- Support computer program control, standard RS232 communication interface.

#### **Technology specification and function features:**

Model	TPS300P					
Rated output voltage	0~75V					
Rated output current	$0\sim$ 10A(Limited by output power)					
Power supply voltage	AC 115V / 230V 50~60HZ(Optional)					
Rated output power	300W					
Setting accuracy	CV: ±(0.1%set+0.05%rating) CC: ±(0.3%set+0.1%rating)					
display accuracy	CV: ±(0.1%rdng+2digits) CC: ±(0.2%rdng+2digits)					
Power adjustment rate	CV: ≦0.01%+3mV CC: ≦0.1%+5mA					
Load regulation	CV: ≦0.01%+5mV(<5A) CC: ≦0.01%+5mA					
Ripple	CV: ≤5mVrms CC: ≤3mArms					
Dynamic response	≤100us					
Quick access	10 group (Contain OVP OCP)					
Protection functions	OVP/OCP/OHP					
Heat-dissipating method	Smart fan control					
Weight	G.W.: 3KG					
Size(WxHxD)	125x170x260(mm)					



# CP600-30V/30A/CP900-30V/30A

HIGH POWER PROGRAM-CONTROLLED DC REGULATED VOLTAGE POWER SUPPLY



CP series power supply is a high-precision, high-reliability, constant-voltage, constant-current, constant-power switching linear regulated power supply. The product adopts innovative double voltage-regulated structure of switch regulated voltage + linear regulated voltage, and also features high efficiency and high power of switching power supply, and the low ripple and high reliability of the linear power supply.

## Application

- Automated testing
- Automotive electronic testing
- Photovoltaic new energy field
- Education, scientific research, laboratory
- Electromechanical field

- LED lighting field
- Other tests, product aging use



### Features

• The product is suitable for 100-240V AC universal AC input, universal use for the global power grid.

- Pure digital MCU control, long-term use to ensure product accuracy, long service life, and low temperature drift.
- High-precision setting and read-back display, built-in 16-bit D/A 20-bit A/D converter
- The product has high efficiency and built-in
- power factor correction circuit.
- Pure hardware OVP, OCP, OHP, OPP protection, OVP/OCP protection values can be set separately.
- Front switch regulated voltage + post linear regulated voltage, double regulated voltage structure, high efficiency, and low ripple.
- With local or remote voltage acquisition, and automatic compensation function. Long-distance measurement can also ensure accuracy.
- Provide 3 groups of quick parameter storage function to quickly call the settings.
- Provide coarse adjustment and fine adjustment functions.Voltage setting accuracy is up to 1mV, current 1mA.
- Intelligent temperature-controlled fan, automatically controlling the speed of heat dissipation.
- Standard USB, RS232 communication interface, which can be connected and controlled with the PC.

# CP series technical specification:

Model		CP600-30V/30A	CP900-30V/30A				
	Input voltage	220-240V AC					
AC input	Frequency	47-63Hz					
	(PFC)	>0.98					
	Output power	0-600W (CP)	0-900W				
Output	Output voltage	0-31V	0-31V				
	Output current	0-31A	0-31A				
Working	method	CV/CC/CP	CV/CC				
	Setting resolution	1mV	1mV				
	Maximum preset voltage(105% of rating)	31V	31V				
	Setting accuracy	0.05%set + 20mV					
	Line regulation	0.01% +5mV					
Voltage	Load regulation	0.1% + 5mV					
	Voltage display resolution	10mV					
	Voltage display accuracy	$\pm$ (0.05% of reading + 2digits) at 23 $\pm$ 5°C					
	Ripple noise	100mVp-p/10mVrms					
	Rise time (Rated Load)	150mS					
	Fall time (No Load)	150mS					
	Temperature coefficient	100ppm/°C(TYP Value)					
	Setting resolution	1mA					
	Maximum preset current (105% of rating)	31A	31A				
	Setting accuracy	0.1% set +0.1	% rating				
Current	Line regulation	0.1%+10mA					
	Load regulation	0.2%+10mA					
	Ripple noise	50mA					
	Temperature coefficient	200ppm/°C					
	Current display resolution	1mA(≤10A) / 10mA(≥10A)					
	Current display accuracy	$\pm$ (0.2% of reading $\pm$ 30	digits) at 23±5°C				
OVP rang	n functions e:0.3V-Rated Voltage+1.5V e:0.3V-Rated Voltage+1.5A	ΟΥΡ、ΟϹΡ、ΟΗΡ、ΟΡΡ、 50	CP(short circuit protection)				
Efficiency(full load)		≥85%					
Commur	ication method	USB、 RS232					
Product s	ize	W190xH125xD330mm					
Standard	packing						
Inner box	: 42.8x29.5x22.2 (cm)	N.W: 4.1KG	G.W: 5.1KG				

# PR35-3A-3C / PR35-5A-3C

THREE-WAY LINEAR DC REGULATED VOLTAGE POWER SUPPLY

## Overview

This product has high precision, high reliability, adjustable constant voltage, constantcurrent DC regulated voltage. The product has the advantages of simple operation, durability and complete functions.

## Application

- Universal testing in R&D laboratory
- Pure power supply for radio frequency,
- microwave circuits or components
- Feature verification and fault diagnosis of devices or circuits
- Quality control and quality inspection
- Power supply for automotive electronic circuits
- Teaching experiments
- Production automation testing



### Features

• The product adopts double four-position voltage, current display with high precision, high reliability, low ripple, low noise, low temperature drift characteristics.

• Independent hardware OVP, OCP protection, OHP protection, fast response, one step faster.

• OVP, OCP protection value can be set separately,

and the application range is wider.

• Quick series and parallel operation, no need for external adapter cable, more convenient to use.

In the series and parallel state, pure hardware shares the same current, fast dynamic response speed, which is more conducive to accurate test.
Fully digital MCU control, button, encoder operation, longer service life, long-term guarantee of product accuracy.

• The three-way power supply is completely isolated from output, operated independently, and does not interfere with each other.

- Panel door cover protection to prevent wrong operation.
- Intelligent fan cooling system with built-in linear temperature sensor to control fan speed, with low noise and more silence.



# PR series technology specification and functions:

lodel			PR35-3A-3C			PR35-5A-3C		
Output Specification		Channel 1 Channel 2 Channel 3		Channel 1 Channel 2		Channel 3		
		105W	105W	5W	175W	175W	5W	
Rated output pow	Rated output power		215W		355W			
Voltage		I						
Rated output volta	age	35V		5V(Fixed)	35V		5(Fixed)	
Maximum preset v	oltage	105% of rating (V)		_	105% of rating(V)		_	
Setting resolution		1r	nV	_	1r	nV	_	
Setting accuracy		0.2% set +	0.1% rating	_	0.2% set +	0.1% rating	_	
Display accuracy		±(0.5% of ro	dng+2 digits)	-	±(0.5% of rc	lng+2 digits)	_	
Line regulation		3r	nV	_	4r	nV	_	
Load regulation		10	)mV	_	10	mV	_	
Transient response	5	50	)us	_	50	)us	_	
Ripple noise		0.5m\	/(rms)	_	0.5m\	/(rms)	_	
Current		-!		ł				
Current		3	A	1A	5	A	1A	
Maximum preset o	urrent	105% of	rating(A)	_	105% of	rating(A)	_	
Setting resolution		0.1mA		_	0.1mA		_	
Setting accuracy		0.3% set +0.1% rating		_	0.3% set +0.1% rating		_	
Display accuracy		±(1% of rdn	ıg+5 digits)	_	±(1% of rdr	ng+5 digits)		
Line regulation		5r	nA	_	5mA			
Load regulation		5r	nA	_	5r	nA	_	
Ripple noise		1mA	(rms)	_	2mA(rms)		_	
Temperature coef	ficient		200ppm/°C(ty_p)					
Protection function	ns			OVP/	OCP/OHP			
Series/Parallel Spe	cification							
Voltage Tracking	Series	≤3(	)0mV	_	≤30	00mV	_	
Characteristic	Parallel	≤20	)0mV	_	≤20	00mV	_	
Input Specificatio	n			•		•		
Nominal input ratin	g	100V、117V、200V、217V(220V)、234V (Factory Preset Parameter ) ±10%						
Frequency		50/60Hz						
Dimension(WxHxD)		W250xH186xD385mm						
Environmental cor	ditions							
Operating tempera	ture	0°C to +40°C						
Operating humidity		< 85%RH						
Standard Packing								
Inner box: 47.6x35.6x27.5(CM)		N.W.: 12.4	N.W.: 12.4KG G.W.: 12.8KG N.W.: 14.2KG G.W.: 14.6KG					



# PR35-3A-3CP / PR35-5A-3CP

THREE-WAY PROGRAMMABLE LINEAR DC REGULATED VOLTAGE POWER SUPPLY

## Overview

This product has high precision, high reliability, adjustable constant voltage, constant current DC regulated voltage. The product has the advantages of simple operation, durability and complete functions.

# Application

- Universal testing in R&D laboratory
- Pure power supply for radio frequency, microwave circuits or components
- Feature verification and fault diagnosis of devices or circuits
- Quality control and quality inspection

- Power supply for automotive electronic circuits
- Teaching experiments
- Production automation testing



### Features

• The product adopts double four-position voltage, current display with high precision, high reliability, low ripple, low noise, low temperature drift characteristics.

• Independent hardware OVP, OCP protection, OHP protection, fast response, one step faster.

• OVP, OCP protection value can be set separately, and the application range is wider.

• Quick series and parallel operation, no need for external adapter cable, more convenient to use.

- In the series and parallel state, pure hardware shares the same current, fast dynamic response speed, which is more conducive to accurate test.
  Fully digital MCU control, button, encoder operation, longer service life, long-term guarantee of product accuracy.
- The three-way power supply is completely isolated from output, operated independently, and does not interfere with each other.
- Panel door cover protection to prevent wrong operation.
- Intelligent fan cooling system with built-in linear temperature sensor to control fan speed, with low noise and more silence.
- The remote control interface supports IEEE std 482.2-1999 and SCPI Specification 1999.0.



## PR series technology specification and functions:

Model			PR35-3A-3	BA-3CP PR35-5A-3			3CP	
Output Specificati	Output Specification		Channel 1 Channel 2 Channel 3		Channel 1 Channel 2		Channel 3	
Rated output power		105W	105W	5W	175W	175W	5W	
			215W			355W	1	
Voltage					1			
Rated output volt	age	35V		5V(Fixed)	35V		5(Fixed)	
Maximum preset v	/oltage	105% of	rating (V)	_	105% of	rating(V)	_	
Setting resolution		1r	nV	_	1r	nV	_	
Setting accuracy		0.2% set +	0.1% rating	_	0.2% set +	0.1% rating	_	
Display accuracy		±(0.5% of r	dng+2digits)	_	±(0.5% of r	dng+2digits)	_	
Line regulation		3r	nV	_	4r	nV	-	
Load regulation		10	mV	_	10	mV	-	
Transient respons	e	50	)us	_	50	)us	_	
Ripple noise		0.5m\	/(rms)	_	0.5m\	/(rms)	_	
Current				1				
Current		3	A	1A	5A		1A	
Maximum preset o	current	105% of	rating(A)	_	105% of	105% of rating(A)		
Setting resolution		0.1mA		_	0.1mA		_	
Setting accuracy		0.3% set +0.1% rating		_	0.3% set +0.1% rating		_	
Display accuracy		±(1% of rdng+5 digits)		_	±(1% of rdng+5 digits)		_	
Line regulation		5r	nA	_	5r	nA	_	
Load regulation		5r	nA	_	5r	nA	_	
Ripple noise		1mA	(rms)	_	2mA	(rms)	_	
Temperature coef	ficient		200ppm/°C(typ)					
Protection functio	ns			OVP/	OCP/OHP			
Series/Parallel Spe	cification							
Voltage Tracking	Series	≤30	)0mV	_	≤30	)0mV	_	
Characteristic	Parallel	≤20	)0mV	_	≤20	)0mV	-	
Input Specificatio	n							
Nominal input ratir	ng	100V、117V、200V、217V(220V)、234V (Factory Preset Parameter ) ±10%						
Frequency		50/60Hz						
Dimension(WxHxD		W250xH186xD385mm						
Environmental cor	nditions							
Operating temperature		0°C to +40°C						
Operating humidity		< 85%RH						
Communication in	terface			RS	232/USB			
Standard Packing					1			
Inner box: 47.6x35.	.6x27.5(CM)	N.W.: 12.6	KG G.W.:	: 13KG	N.W.: 14.	4KG G.V	V.: 14.8KG	



# Engineer's partner

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