

ATTEN[®]
INSTRUMENTS

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2010

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THE **NO.1**
INSTRUMENTS BRAND IN CHINA

CBT016100(2010)

**Power Supply & Tools
Product Catalogue**

About Company

Shenzhen Atten Electronics Co. Ltd., is the pioneering name in electronics instruments manufacturing in China. Established in 1996 and in a short span of 13 years, Atten had grown into a professional enterprise engages in electronic instruments and communication apparatus and also we are the largest electronic company and strongest in technology around china.

Atten is the unique large-scale ISO9001:2000 company who produces spectrum analyzers for industry and commerce in china. Our company has more then 600 skilled workers, with 10 production lines and 20000 square meter modern factory area manufacturing high quality products.

We have honored with the title of SHENZHEN new & high technology project cooperation. All of our products has been accredited for "3C" "CE" "E-mark" "RoHS" "UL", we had ten production line, we can produce more than 30000 output every month.

ATTEN GROUP OVERVIEW

ATTEN GROUP Inc's subsidiaries include: ATTEN (HONGKONG) Co., Ltd, Shanghai TANA Electronics Co., Ltd., Shenzhen ATTEN Electronic Co. Ltd., Atten Microwave Co. Ltd. and Shenzhen ATTEN Power Supply Factory. We have sales branches all over the country, in Beijing, Shanghai, Chengdu, Jinan Kunming, Xi'an, Nanchang, Changsha, Quanzhou, Hefei, Guangzhou and Shenzhen. So far, we have established two Product R D Departments and a Microwave Instrument Institute. They mainly engage in developing and application of RF, Microwave products, and has developed more than ten national patented products.

SALES NETWORK & SERVICE GUARANTEE

Atten have the strongest presence in China and have extensive sales network with more than 25 office and 85 distributors across china. We have a well trained service network for speedy service to our customers. Our products are exported to North America, South America, South-east Asia and Europe.

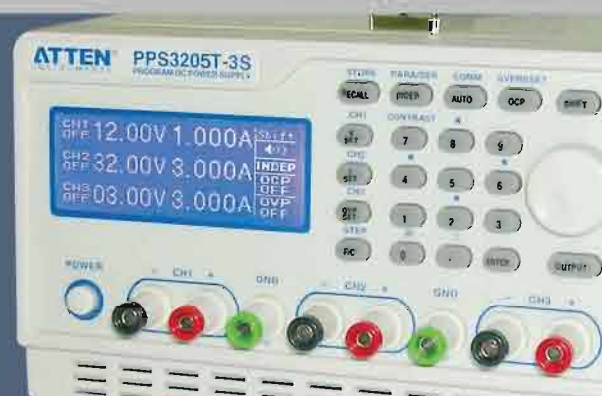
TECHNOLOGICAL STRENGTH

Atten's Research and Design department, have more than 100 highly qualified research engineer and have more than 200 Precision Testing Equipment for research. There are three separate research department, respectively RF microwave instrument & trainer experiment research, power supply and advanced solder and desolder equipments. Our Shanghai RF microwave instrument research department, have more than 60 advanced RF technical engineer, having vast experience in microwave research and application, Our overseas R D is in American Cogni Technical company.

CORPORATION TENET

From the research to manufacture, from the sales to maintenance, ATTEN Electronic Co., Ltd. manufacture quality products, specialty technical support and fast/perfect service Guarantee. We promise to pass on the maximum profit to customers, we will develop together with the Customers.

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ATTEN® INSTRUMENTS

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Power Supply

Overview

TPR series are high precise regulated DC power supply with constant current and voltage function. It is designed for laboratory, education and factory line. Output voltage can be continuously adjustable from 0 to nominal value. Output load current is same as the voltage that can be adjustable from 0 to nominal value. The coefficient of the stability and ripple of the power is fine.

TVR series is high precise and stability, low temperature drift regulated DC power supply with constant current and voltage function. This series can be used in high-end production line, research laboratory and college education. You can choose this type power supply for its outstanding function and high stability. At the same time, you can combine your computer with USB interface for remote system control and operations.

APS regulated DC power supply is economical and practical. Both voltage and current can be adjustable, and features like limiting current and voltage protection.

AT regulated DC power supply series is designed keeping in mind the specific necessity of the communication industry.

Technical Strength

Shenzhen Atten's Research Department have 17 years rich experience in manufacturing regulated DC&AC power supply and high-quality researching engineer. To meet with different market, we have developed 5 series thousands of different specification models. We can offer regulated power to factory line, laboratory, researching product and communication maintains.

All our products can be designed for OEM and ODM.

Atten regulated DC power supply is an ideal companion for your power requirements.

Whether do you spend much time and energy in designing whole power supply as you research and manufacture electronic production?

Power supply must bear multiple pressures such as high quality standard, tight, heavy task, and high risk and so on. Atten can solve these problems. Therefore, it would be better purchasing power supply than manufacturing it.

Whether can't you start the device even the uncontrolled power supply lead to burn it, when you use power supply?

When we sell power supply to you, we must know the condition you use it, or we do not accept the order. Atten can insure every device is reliable, safe and plus variety overload and overvoltage protection to protect circuit.

Whether do you have some special and individual requirements for your power supply?

We have corresponding plans to solve some problems, like corrosion, salt, shock and wet.



PPS3203T-3S/PPS3205T-3S

The PPS Programmable is a economically prices, hi performance power supply It is a 3-channel, 96 or 158W, programmable linear DC power supply. Inbuilt protection features like OVP, OCP, and OTP protect the power supply and the attached load from unexpected voltage fluctuation and give the power supply high stability.

It has a clear LCD panel with simultaneous output/parameter view for better reading of the output and programming. The versatile PPS -Series is ideal for applications requiring high resolution, multiple output, and automated operation such as in production testing and rack mounting system As power output change, the intelligent fan will control the temperature of the device correspondingly. A buzzer is built to warning when you operate wrongly or error in device. In order to correct precisely, there are fine and carols shuttle knob with 90 settings memories. It also has a One second timer auto step.

Technical parameter

Note: the following indexes are tested after 20 minutes' warming-up.

Specifications		PPS3203T-3S	PPS3203T-2S	PPS3205T-3S	PPS3205T-2S
Output	Voltage	0~ 32V x 2, 0-6V x1	0~ 32V x 2, 2.5V/ 3.5/ 5Vx1	0~ 32V x 2, 0~6V x 1	0~ 32V x 2, 2.5V/ 3.5/ 5Vx1
	Current	0~3A x 3	0~3A x 2 3A x 1	0~5A x 2 0~3A x 1	0~5A x 2 3A x 1
Load Effect	Voltage	$\leq 3\text{mV}(\leq 8\text{mV rated current} > 3.0\text{A})$			
	Current	$\leq 3\text{mA}(\leq 5\text{mA rated current} > 3.0\text{A})$			
Power Effect	Voltage	$\leq 3\text{mV}(\text{AC} \pm 5\%)$			
	Current	$\leq 3\text{mA}$			
Resolution	Voltage	10mV			
	Current	1mA (2mA rated current > 3A)			
Set Accuracy (25±5℃)	Voltage	$\leq 0.05\% + 10\text{ mV}(\text{+ } 20\text{ mV rated voltage} > 36\text{V})$			
	Current	$\leq 0.1\% + 5\text{mA}(\text{+ } 10\text{ mA rated current} > 3.0\text{A})$			
Ripple (20Hz-20MHz)	Voltage	Ripple $\leq 1\text{ mVrms}$			
	Current	$\leq 3\text{mA}_{\text{rms}}(\leq 5\text{mA}_{\text{rms}} \text{ rated current} > 3.0\text{A})$			
Temperature Coefficient (0~40℃)	Voltage	100ppm+3mV			
	Current	100ppm+3mA			
Read back Resolution	Voltage	10 mV			
	Current	1mA(2mA rated current > 3.0A)			
Response Time	Voltage rise	10%~90% $\leq 100\text{ms}$			
	Current fall	90%~10% $\leq 10\text{ms}(\geq 10\% \text{ rated load})$			
Readback Temperature Coefficient	Voltage	$\leq 100\text{ppm} + 10\text{ mV}$			
	Current	$\leq 150\text{ppm} + 10\text{ mA}$			
Drift	Voltage	$\leq 100\text{ppm} + 10\text{ mV}$			
	Current	$\leq 150\text{ppm} + 10\text{ mA}$			
Serial synchronous operation	Serial synchronous error	$\leq 0.1\% + 20\text{ mV}$			
	Series(Load)	20 mA			
Parallel Synchronous Operation	Set Accuracy	Voltage $\leq 0.05\% + 20\text{ mV}$ Current $\leq 0.1\% + 20\text{ mV}$			
	Load regulation	Voltage $\leq 5\text{mA}$ Current $\leq 6\text{mA}$			
	Power regulation	Voltage $\leq 3\text{ mV}$ Current $\leq 8\text{mA}$			
Memory		Store/Recall points 0~90			
Timer	Setting time	1s~9999s			
	Resolution	1s			
	Function	Auto Step running			
Interface		RS 232(standard configuration), USB interface(optional)			
Mechanical Spec.	Dimensions	230 (W) × 140 (H) × 380 (L) mm			
	Weights	10Kg			
Operation Environment		Indoor use, Altitude up to 2000 m			

Product Features:

- The most economical programmable regulated power supply
- Being able to replace of mature and simulation power supply in the market completely.
- Better than normal power supply on precision and stability.
- Offering lot of complex testing condition through computer controlling.
- In order to satisfying quickly swift under different environment, we can store output ratings.
- Equipped with multiple protections which only the advanced power supply owns.
- High-resolution, 10mV, 1mA.
- High-stability, low-drift.
- OVP, OCP and OTP to protect power supply.
- Standard interface: RS-232
- Optional : USB

NEW



● The real object shall prevail in case of any inconformity between the picture and the real object

Technical Parameter:

Load Effect	Voltage	$\leq 5\text{mV} (\leq 10\text{mV when rate current} > 3.0\text{A})$
	Current	$\leq 3\text{mA} (\leq 10\text{mA when rate current} > 3.0\text{A})$
Power Effect	Voltage	$\leq 3\text{mV}$
	Current	$\leq 3\text{mA}$
Resolution	Voltage	10mV
	Current	1mA(2mA when rate current > 3A)
Set Accuracy (25±5°C)	Voltage	$\leq 0.05\% + 20\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA} (+10\text{mA when rate voltage} > 3\text{A})$
Ripple (20Hz~20MHz)	Voltage	ripple $\leq 1\text{mVrms} (\leq 2\text{mVrms} > 3\text{A})$
	Current	$\leq 3\text{mA} (\leq 5\text{mA when rate current} > 3.0\text{A})$
Temperature Coefficient (0~40°C)	Voltage	100PPm+3mV
	Current	100PPm+3mA
Output Resolution	Voltage	10mV
	Current	1mA(2mA when rate current > 3A)
Read-back temperature coefficient	Voltage	$\leq 100\text{ppm} + 10\text{mV}$
	Current	$\leq 150\text{ppm} + 10\text{mA}$
Drift	Voltage	$\leq 100\text{ppm} + 10\text{mV}$
	Current	$\leq 150\text{ppm} + 10\text{mA}$
Interface	RS 232(standard configuration), USB interface(optional)	

AT Maintenance Power Supply

■ APS1501T / APS1501T+

Overview of APS1501/APS1501T+

They are comprehensive function power supply with voltage adjustable and measurement, automatically restore cost-saving and over-load protection type. They are very suitable for maintain and small power production line testing.

Technical Index

Input Voltage: AC220V \pm 10%. 50Hz

Output Voltage Range: 0~15V

Output Current Range: 0~1A

Power: 15W

Display Precision of Voltage: 0.1V

Display Precision of Current: 2.5degree

Ripple and Noise: \leq 0.5mVrms

Dimension: 227x142x208 mm



APS1501T



APS1501T+

APS1501T+ brings with USB 5V power interface and mA display.

AT Maintenance Power Supply

■ APS1501A+ / APS1502A+ ■ APS1501D+ / APS1502D+



APS1501A+



APS1501D+

Overview of APS1501A+ / APS1502A+ APS1501D+ / APS1502D+

APS150x series are characterized with low ripple noise, small and economical. As for voltage adjustable and automatically restoring after current cut-off protection, they are suitable for testing and debugging in factories.

Technical index

Input Voltage: AC220V \pm 10%. 50Hz

Output Voltage Range: 0~15V

Output Current Range: 0~1A/2A

Power: 15W/30W

Stability of load: 0.1%

Ripple and Noise: \leq 3mVrms

Dimension: 310x207x98 mm

APS Series Power Supply

■ APS3003S / APS3005S
■ APS3003Si / APS3005Si

Overview

They are single-channel, constant-voltage and constant-current power supplies with low ripple and noise, high reliability and high accuracy. Moreover, they have perfect protection circuit of overload, short circuit and overheating, which can meet the needs of development of scientific products and usage in lab, training and electronic production line.

Technical Specifications:

Output Voltage Range: 0-30V

Output Current Range: 0-3A/0-5A

Power: 90W/150W

Voltage/Current Display: LED Display

Display Accuracy

Voltage: 0.1V

Current: 0.01A (APS300XSi:1mA)

Load Stability: $\leq 0.1\%+5\text{mV}$

Ripple and Noise: $\leq 3\text{mVRMS}$

Dimension: 260x150x160mm



APS3003S



APS3003Si

APS Series Power Supply

■ APS3003S-3D
■ APS3005S-3D



APS3005S-3D

They are double-channel regulated power supplies with low ripple and noise, reliability. Two channel which can automatically switch and track the function of series and parallel, independent from each other with constant voltage and constant current, which increase the ability of load. They can apply in product research, laboratory and electronic production line, and also in communications industrial. Safe for students to use

Dual Channels And Adjustable Regulated DC Power Supply

AC Input Voltage: AC 110V/220V, 60Hz/50Hz

Output Voltage Range: CH1 0~30V, CH2 0~30V, CH3 5V

Output Current Range: CH1 0~3A/5A, CH2 0~3A/5A, CH3 3A

Display Precision: $\pm 0.5\% + 2 \text{ bit}$

Ripple and Noise: $\leq 3\text{mVRMS}$

Load Stability: $\leq 0.1\%+5\text{mV}$

Power: 195W / 315W

Display Resolution: Voltage 0.1V ; Current 0.01A

Auxiliary Power Voltage: 5 V Fix

Auxiliary Power Current: 3 A

Protection Method: current-limited lower voltage protection, short-circuit protection, over-temperature protection.

Working Method: constant current and constant voltage

Working Method Cooling Mode: strong wind cooling

Synchronous error: $\leq 0.5\% + 10\text{mV}$ (Dual channels)

Series Adjustable rate: $\leq 300\text{mV}$

Dimension: 405x260x160mm

TPR Series Power Supply

■ TPR3010S
■ TPR3020S

Overview of TPR3010S/TPR3020S

TPR3010S/3020S series are constant voltage and constant current signal-channel power supply, voltage and current continuous adjustable, high-light LED display, multiple protections, safety and reliability. Beautiful appearance and high performance function of these devices makes it especially suitable for the heavy load electronic production line. At the same time, it can be used for research labs, technical laboratories, and education and communication industry.

Technical index

Input Voltage: AC220V \pm 10%, 50Hz

Output Voltage Range: 0~30V

Output Current Range: 0~10A/20A

Rated Power: 300W/600W

Display precision: 0.1V \pm 2bit 0.01A \pm 2bit

Stability of voltage: \leq 0.01%+3mV

Stability of load: \leq 0.01%+10mV(\leq 10A); \leq 0.01%+20mV (> 10A)

Ripple and Noise: \leq 3mVrms

Method of protection: limited current and low voltage /over-temperature protection

Cooling model: fan



TPR3010S

TPR Series Power Supply

■ TPR6005S
■ TPR6010S

Overview of TPR6005S/TPR6010S

TPR6005S/TPR6010S are constant voltage and constant current signal-channel power supply, voltage and current continuous adjustable, high-light LED display, multiple protections, safety and reliability. Beautiful appearance and high performance function of these devices makes it especially suitable for the heavy load electronic production line. At the same time, it can be used for research labs, technical laboratories, and education and communication industry.

Technical index

Input Voltage: AC220V \pm 10%, 50Hz

Output Voltage Range: 0~60V

Output Current Range: 0~5A/10A

Rated Power: 300W/600W

Display precision: 0.1V \pm 2bit 0.01A \pm 2bit

Stability of voltage: \leq 0.01%+3mV

Stability of load: \leq 0.01%+5mV(\leq 5A);
 \leq 0.01%+10mV (> 5A)



TPR6010S

Ripple and Noise: \leq 3mVrms

Method of protection: limited current and low voltage /over-temperature protection

Cooling model: fan

TPR Series Power Supply

■ TPR3003T
■ TPR3005T

Description of TPR3003T/TPR3005T

This series is single-channel regulated DC power supply with LED panel bring backlight and voltage and current can be adjusted continuously. Knobs are hid in a device shell so that avoid trouble which is done wrongly. It is blend of beautiful and intelligent design for high performance. They can used in product research, laboratory and electronic production line, and also in communications industry

Technical parameter:

AC Input Voltage: AC 220V $\pm 10\%$, 50Hz
Rated Output Voltage: 0~30V
Rated Output Current: 0~3A/5A
Rated Output Power: 90W/150W
Voltage Display Precision: 0.1V ± 2 bit
Current Display Precision: 0.01A ± 2 bit
Voltage Stability: $\leq 0.01\% + 2$ mV
Load Stability: $\leq 0.01\% + 5$ mV
Ripple: ≤ 1 mVrms (5Hz~1 MHz)
Working Method Cooling Mode: wind cooling
Dimension: 275x125x170 mm



TPR3005T

TPR Series Power Supply

■ TPR3003T-3C
■ TPR3005T-3C

Description of RPR3003T-3C/TPR3005T-3C

This series is double-channel regulated DC power supply with LED panel bring backlight and voltage and current can be adjusted continuously. Knobs are hid in a device shell so that avoid trouble which is done wrongly. Two channels can automatically track series and parallel function and independent from each other. CH3 is a fixed output with three adjustable files 2.5V, 3.3V and 5V. It is blend of beautiful and intelligent design for high performance. They can used in product research, laboratory and electronic production line, and also in communications industry.

Technical parameter

AC Input Voltage: AC 220V $\pm 10\%$, 50Hz
Rated Output Voltage: CH1 0~30V, CH2 0~30V, CH3 2.5V/3.3V/5V
Rated Output Current: CH1 0~3A/5A, CH2 0~3A/5A, CH3 3A
Rated Output Power: 195W/315W
Voltage Display Precision: 0.1V ± 2 bit
Current Display Precision: 0.01A ± 2 bit
Ripple and Noise: ≤ 1 mVrms
Voltage Stability: $\leq 0.01\% + 2$ mV
Load Stability: $\leq 0.01\% + 5$ mV
Protection Method: current-limited lower voltage protection
Environment parameter: relative damp < 80%,
 temperature of operating environment 0~40°C
Cooling Mode: strong wind cooling
Dimension: 370x250x160 mm



TPR3005T-3C

TVR Series power supply

■ E3505



E3505

Description of E3505 power supply

This is a single-channel regulated DC power supply with continuously adjustable voltage and current, LED display. It is extremely high stability and low ripple noise, and applies in most electronic circuit including operational amplifier and digital logical circuit. Ideal for electronic enthusiasts, researchers and technology school and universities.

Technical parameter:

AC Input Voltage: AC220V $\pm 10\%$, 50Hz

Output Voltage Range: 0~35V

continuously adjustable

Output Current Range: 0~5A continuously

adjustable

Voltage Display Precision: 0.01V

Current Display Precision: 0.01A

Power: 175W

Voltage/current display: LED

State of constant voltage

Stability of voltage: $\leq 0.01\% + 2\text{mV}$

Stability of load: $\leq 0.01\% + 5\text{mV}$

Ripple and noise: $\leq 1\text{mVrms}$

State of constant current

Stability of current: $\leq 0.02\% + 2\text{mV}$

Ripple and noise: $\leq 3\text{mArms}$

Dimension: 258x207x98 mm

PVR Series power supply

■ PVR3003B

■ PVR3005B

Description of PVR3003B / PVR3005B

This is a single-channel regulated DC power supply with continuously adjustable voltage and current, LED display and back light. It applies in most electronic circuit including operational amplifier and digital logical circuit. Ideal companion for electronic enthusiasts, researchers and experts from technology school.

Technical parameter:

AC Input Voltage: AC220V $\pm 10\%$, 50Hz

Rated Output Voltage: 0-30V

Rated Output Current: 0-3A/5A

Rated Output Power: 90W/150W

Voltage Display Precision: $0.1\text{V} \pm 2\text{bit}$

Current Display Precision: $0.01\text{A} \pm 2\text{bit}$

Ripple and Noise: $\leq 3\text{mVrms}$

Load Stability: $0.1\% + 10\text{mV}$

Protection Method: current-limited lower voltage protection

Working method: Constant voltage

Temperature of operating environment: $0\sim 40^{\circ}\text{C}$

Cooling Mode: strong wind cooling

Dimension: 243x125x173 mm



PVR3003B

KPS Series Power Supply

■ KPS3050DA

■ KPS3030DA

Capability Characteristics

The output voltage and output current are continuously adjustable. The device is stabilized and over voltage protection, over current protection, short circuit protection and over temperature protection. Ideal for usage in laboratories, schools and training centers.

Specifications

Input Voltage Range: AC 220V/50Hz

Output Voltage: 0-30V(adjustable)

Output Current: 0-30A(adjustable)

Rated Output Power: 900W

Charging Time: 8 H

Operating Environment temperature: 0-40°C

The display resolution of voltage: 0.1V \pm 2bit

The display resolution of current: 0.1A \pm 2bit

Work method cooling method: wind cooling

Measurement (LxWxH): 390x250x200mm



KPS3050DA

KPS Series Power Supply

■ KPS2054

Description of KPS2054

This is an efficiently adjustable and advanced LED display switching power supply, and characterize with big load, reliability and high efficient. The output voltage and output current are continuously adjustable. The technology level of this kind is up the international standards. The device is stabilized and over voltage protection, over current protection, short circuit protection and over temperature protection. It is ideal for usage in laboratories, schools, electronic production line and communication industry.

Specifications

AC Voltage: AC 110V/230V

Voltage Range: 60Hz/50Hz

The display resolution of voltage: $\pm 0.1\%V \pm 2\text{bit}(23 \pm 5^\circ\text{C})$

The display resolution of current: $\pm 0.1\%A \pm 2\text{bit}(23 \pm 5^\circ\text{C})$
(minimum display: 100A)

Fully-loaded efficiency: $\geq 80\%$

Ripple wave + noise p-p $\leq 180\text{ mV}$

(switch frequency 100KHz)

Average evolution: $\leq 25\text{mV}$



KPS2054

Power supply stability: $\leq 20\text{mV}$

Load stability: $\leq 60\text{mV}$

Protection method: current-limited lower voltage, over temperature, output over voltage, output short circuit protection.

Power: 1080W

Voltage: 0~20V

Current: 0~54A

Work method cooling method: wind cooling

KPS Series Power Supply

■ KPS-150

■ KPS-300

■ KPS-600

■ KPS-900



KPS-150

Specifications

Input Voltage : AC 220V \pm 10% 50Hz

Working Temperature: 0°C ~ 40°C

Working Relative Humidity: < 80%

Storage Condition

Temperature: -10°C ~ 80°C

Protection Output over-voltage protection over-current short over-temperature. Rated working efficiency (under the condition output DC15V with full load.

Power stability: $\leq 1\%$

Load Stability: $\leq 1\%$

Ripple noise: $\leq 1\%$

Dimension: Standard cabinet

The display resolution of voltage: 0.1V \pm 2 bit

The display resolution of current: 0.1A \pm 3 bit

Work method cooling method: Wind cooling

Item No.	Rated Output Voltage/Current	Voltage/Current Display	Precision	Meas.(H*B*T)	Weight(kg)
KPS-150	Step One 0~15V / 0~10A	Digital display	0.1 \pm 2byte	98x482x285	3.75
	Step Two 0~30V / 0~5A	Digital display	0.1 \pm 2byte	98x482x285	3.75
	Step Three 0~60V / 0~2.5A	Digital display	0.1 \pm 2byte	98x482x285	3.75
KPS-300	Step One 0~15V / 0~20A	Digital display	0.1 \pm 2byte	98x482x305	4.50
	Step Two 0~30V / 0~10A	Digital display	0.1 \pm 2byte	98x482x305	4.50
	Step Three 0~60V / 0~5A	Digital display	0.1 \pm 2byte	98x482x305	4.50
KPS-600	Step One 0~15V / 0~40A	Digital display	0.1 \pm 2byte	142x482x285	3.75
	Step Two 0~30V / 0~20A	Digital display	0.1 \pm 2byte	142x482x285	3.75
	Step Three 0~60V / 0~10A	Digital display	0.1 \pm 2byte	142x482x285	3.75
KPS-900	Step One 0~15V / 0~60A	Digital display	0.1 \pm 2byte	142x482x335	8.30
	Step Two 0~30V / 0~30A	Digital display	0.1 \pm 2byte	142x482x335	8.30
	Step Three 0~60V / 0~15A	Digital display	0.1 \pm 2byte	142x482x335	8.30

Tools Series

Overview

Atten Electronics Co. Ltd. is one of the first companies to manufacture constant temperature soldering station in China. We have many kinds of SMD rework station to satisfy the market demand, these are: lead-free soldering station series, anti-static temp-control constant temp soldering station series, rework station series, hot air gun series and so on.

We focus on

- Constant temp, small temperature error and temperature back quickly of the products.
- The air blowing is rotating and soft to uniform heating to protect components better,
- Soldering and de-soldering the most of the SMD component, such as BAG, SOIC, CHIP, QFP, and PLCC and so on.
- Blowing all kinds of big or small shielding box will not make it discolor quickly.
- Blowing plastic components won't be deformed.
- Blowing PCB will not make it blister.

Function

Closed-loop control circuit offers accurate temperature. High output starting power can be up to 560W in a flash. It is convenient to set and increase temperature. Temperature of the wind-gap is accuracy and stability which is not affected by the volume of output air. There are 8 files to adjust output air and the temperature remains the former settings, which is better to protect IC and PCB. When temperature is up to setting temperature, heating indicator snobs out and heating component stops heating during the closed-loop control circuit is running. However, when temperature is less than settings, heating indicator lights and heating component will go one working to remain setting temperature, long-life the heating component.

After reworking and put off the device, closed-loop circuit will wind and cold the device automatically and the volume of air can be adjustable. Moreover, the cool system closes itself automatically after the temperature is less than 100°C, except 850 and 850DB. All these features can protect heating component, handle, and thunder to prolong their using life.

850D and 850CB have LED display; both thunder temperature and actual temperature can be display. The design of antistatic protects PCB from static and voltage leakage.

The method that you do not need contact solder avoids components displacement and heat shock. Volume of air and temperature are adjustable significant, and our products can solder OFP, SOP and IC. According to soldering or disordering, you can choose correspondingly nozzle. The heating wire and nozzle we adopt match with these of international brand.



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INSTRUMENTS

INTRODUCTION

SMD advanced soldering station

Function

- Adopt conductive materials, design for antistatic and clean indoor specially (ESD).
- Heating element is made in import high temperature materials with advanced technology, and prolongs the using life of heating element.
- Low DC power supply provides electricity for heating element; insure the function of antistatic, voltage non-leakage and interference.
- Precise temperature (200~480°C) control is stability
- Quick Heating
- Light-weight handle design, suitable for use for a long time.
- Main power supply used by heating element insulate from grid.
- Iron tip adopt air connector and high temperature and antistatic silicone rubber cables connect with temperature control station.
- Unique temperature lock settings, avoid operator cliché temperature.
- Split design, easy to be placed
- There are two kinds of devices, normal and antistatic, meet with different working condition.

Lead-free Basic Knowledge

In recent years, people are taking the contamination of lead to people more and more seriously. And many governments make laws to forbid the usage of lead in the manufacturing of electronics, automobile and airplanes. Therefore, it is very urgent to develop and promote the lead-free soldering materials. The promotion of lead-free soldering materials is connected with every field, including components, PCB, fluxing materials and equipment: that is, lead-free materials and plating are also used for pins of components and internal connection, PCB substrate materials need higher temperature and the plating layer on the pad also needs to adapt to welding at a high temperature, the color of the fluxing materials should not be changed at a high temperature; and the mechanical materials, transmission and control system in the soldering equipment should also adapt to the usage at a high temperature and so on.

Because of the high melting point of stannum (232°C), if the layer of the pure stannum plated on the copper is exposed for a long time, it may lead to inter-reaction (but mixture can restrain the inter-reaction of stannum). And it will result in the growth of crystal at a higher temperature and damper environment, so the rough soldering craftwork can not be directly used as lead-free soldering materials. Nowadays, the definition of international legalized lead-free soldering materials is: soft-solder alloy which is based on Sn, has added other metal elements, contains less than 0.1% - 0.2% Pb and is mainly used for electronics assembly.

INTRODUCTION



AT935

Advanced Soldering Station



Features and advantages:

- Heating quickly, precise temperature control stability
- Light-weight handle design, suitable for comfortable use for a long time.
- Use mechanical temperature.
- Especially suitable for SMD mount components by hand, rework and the general components of the welding line. As well as various other requirements of the welding process.
- Stable impedance grounding, to the absolute protection of sensitive components and the safety of the user.
- Split design of heating element and soldering iron, soldering tip and the same as international brand.
- Efficient constant temperature and temperature control.
- Patent of advanced adjustable model in home and abroad.
- Easy to operate and suitable for various working conditions.



The fine-tuning temperature of soldering station is controlled by tools.

ATTEN
INSTRUMENTS



**SOLDERING
STATION**

AT935

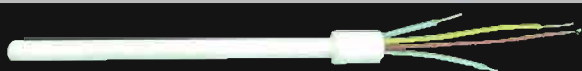
Advanced Soldering Station

Specifications:

Input voltage:	AC 110/220V(adjustable)
Expend power Max:	50W
Temperature range:	200~480°C
Voltage of iron tip:	< 0.5mV

Parts list

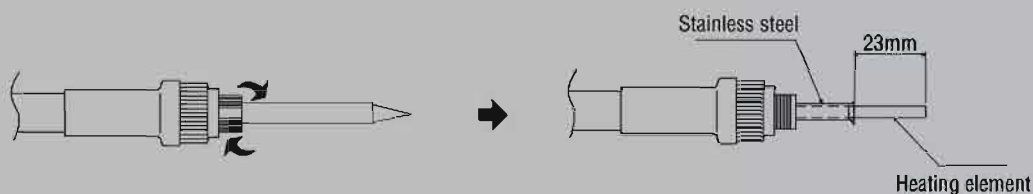
907 handle (design for AT935)	1 PC
Iron holder	1 PC
Clean sponge	1 PC
AT935 Heating element (4 cores, 50W)	optional



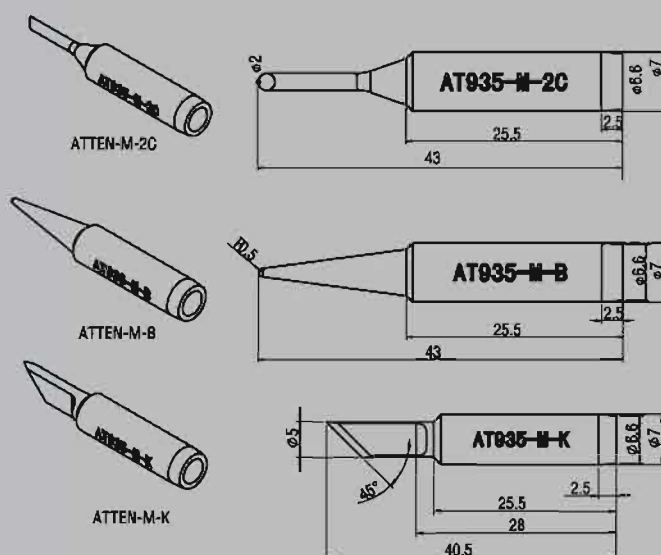
Ceramic heating element, (4 cores, 220V, 50W)

Replacement and deal with of iron tips

You can release sleeve and take out of iron tip to replace with new. When you want to replace the tip you must power off the station and let the bad tip to cool. Clearing the oxides on the fixed of the sleeve, you also should take care of the dust get into your eyes.



Specifications of AT 935 iron tip



AT936

Advanced Soldering Station



NEW

Features and advantages

- New appearance in compact and small design, easy to place and saves work area.
- Light-weight handle design, suitable for use for a long time.
- Heating element adopts import high temperature materials and double wire rapped make the life of heating element longer and reduces costs.
- Low voltage power supply provides electricity for heating element; insure the function of antistatic, voltage non-leakage and interference.
- Unique temperature locking devices to prevent the staff from adjusting the temperature improperly.
- 200~480°C temperature control stability and accuracy
- Soldering tip is compatible international brand. according to different working condition the customer can choose the respective iron tip.



The fine-tuning temperature of soldering station is controlled by tools.

Specifications

Input voltage: AC 110/220V(adjustable)

Input frequency: 50/60Hz

Expend power Max: 50W

Temperature range: 200~480°C

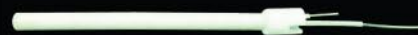
Leak resistance of soldering tip: <2 Ohm

Leak voltage of soldering tip: <5mV

Soldering tip: AT -900M

Parts list

ATTEN 907 handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Heating element (2 cores, 50W)	optional



Ceramic heating element, 2 cores, 50W



ATTEN 907 handles

ATTEN
INSTRUMENTS

**SOLDERING
STATION**

AT936b

Advanced Soldering Station



Technical Specifications

Input Voltage: 110V/220VAC optional

Input Frequency: 50/60Hz

Power Consumption: 50W (max)

Temperature Range: 200 – 480°C

Tip and ground Impedance: <2 Ohm

Tip and ground potential: <5mV

Standard tip: AT-900M

AT936B



Technical Specifications

Input Voltage: 110V/220V AC optional

Input Frequency: 50/60Hz

Power Consumption: 50W (max)

Temperature Range: 200 – 480°C

Tip and ground Impedance: <2 Ohm

Tip and ground potential: <5mV

Standard tip: AT-900M

Characteristics and Advantages

- Split design, small size, easy for putting, space-saving in particular
- Light handle and suitable for long-time operation
- Heater with imported temperature-beard materials, two-wire heating method, long life, and low cost.
- Low-voltage power supply used on the heater, anti-static, no creepage, no interference
- Unique temperature locking devices to prevent the staff from adjusting the temperature improperly.
- Temperature 200-480°C, stable and accurate
- Same as the soldering tips of international brand; optional soldering tips according to the different working conditions of users.



The fine-tuning temperature of soldering station is controlled by tools.

Parts list

ATTEN 907 handle	1PC
Soldering holder	1PC
Cleaning sponge	1PC

Heating elements	Two cores(AT936B)	optional
	Four cores(AT936b)	optional

Ceramic heating element, 2 cores, 50W

Ceramic heating element, 4 cores, 50W

AT213

Advanced Soldering Station



AT213D



Characteristics and Advantages:

- PID power control loop with constant temperature set by MCU computer, more precise temperature control
- Heated by high power, fast warming to improve the welding speed greatly
- Advanced stainless steel heating core ensures long life
- Random exchanges of temperature display between Fahrenheit and Celsius, convenient for the habit of the operator.
- Computerized temperature correction to calibrate the temperature difference between the soldering tip and display temperature.
- Sleep and automatic shutting down to save energy
- Malfunction alert function

Technical Specifications

Input voltage: 220V AC $\pm 10\%$ 50Hz

Output voltage: 28V AC

Power consumption: 135W (max)

Temperature control range: 100~ 500°C (212°F ~932°F) / AT213A 200 ~480°C

Temperature stability: $\pm 1^\circ\text{C}$ (static working mode) Long-life heating element, high power, and stainless steel heating core

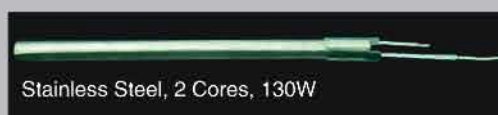
Ground impedance: $< 20\text{hm}$

Ground voltage: $< 2\text{mV}$

Dimension: W160mmxH106mmxL152mm

Parts list

ATTEN 907 handle	1PC
Soldering holder	1PC
Cleaning sponge	1PC
Heating elements	
Stainless Steel, 2 Cores, 130W	optional



ATTEN
INSTRUMENTS

SOLDERING
STATION

AT969D

Advanced Soldering Station



Product characteristics of AT969D

- Stainless steel heating element, temperature probe and soldering tip in close contact. Temperature sensitive, back to the temperature rapidly, extending the life of heating element.
- Split design of heating element and soldering iron, Soldering tip is compatible international brand, cost-saving and easy to replace.
- 27V low-voltage output and stable impedance grounding, to the absolute protection of sensitive components and the safety of the user.
- Intelligent digital control and precise temperature control for stability.
- LED digital display, the knob adjustment of input data, visual display, fast and easy to use.
- Intelligent temperature card management, to prevent accidental temperature change by operator.
- The digital temperature calibrations, accurate calibration.
- Automatic sleep function to save energy, 20 minutes of non operation, automatically enters sleep function. After 40minutes, automatically cut off power supply. Upon wake up operation, soldering iron to backs up to the preset temperature rapidly.
- Self-fault detection. The LED display screen will show "--", when the heating element is damaged.

Technical Specifications

Input Voltage: 220V $\pm 10\%$ 50Hz

Output voltage: 24V AC

Temperature range: 150~450°C

Temperature lock method: card (969D)

Power consumption: 60W

Leak resistance of soldering tip : < 2 Ohm

Leak voltage of soldering tip: <5mV

Dimension of iron tip: AT-900M

Parts list

ATTEN 969 handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Card	1 PC
Heating element(stainless steel, 2 cores, 60W)	optional



**SOLDERING
STATION**

AT969A

Advanced Soldering Station



Product characteristics:

- Stainless steel heating element which compared with the traditional ceramic heating element, extending the life of heating element. Temperature probe and soldering tip in close contact. Temperature sensitive, back to the temperature rapidly.
- Split design of heating element and soldering iron, soldering tip and the same as international brand. Compare with Integration heating element, the use of cost-saving, easy to replace
- 27V low-voltage output and stable impedance grounding, to the absolute protection of sensitive components and to the safety of the user.
- Light-weight handle design, suitable for use for a long time.
- Especially suitable for SMD mount components by hand, rework and the general components of the welding line. As well as various other requirements of the welding process.
- Using mechanical temperature lock.

Technical Specifications:

Input Voltage: 220V $\pm 10\%$ 50Hz

Output voltage: 24V AC

Temperature range: 200~480°C

Temperature lock method: Mechanical

Power consumption: 60W

Leak resistance of soldering tip : < 2 Ohm

Leak voltage of soldering tip: <5mV

Dimension of iron tip: AT-900M

Parts list

ATTEN 969 handles	1 PC
Iron holder (936)	1 PC
Clean sponge	1 PC
Heating element(stainless steel, 2 cores, 60W)	optional



Stainless steel, 2 cores, 60W



The fine-tuning temperature of soldering station is controlled by tools.

ATTEN
INSTRUMENTS

**SOLDERING
STATION**

AT60D

Advanced Soldering Station

MODEL :

AT60D / 60W

AT80D / 80W

AT100D / 100W



Product characteristics:

- New appearance; light and handy handle, convenient for long-time operation.
- Heater with imported temperature-beard materials; made through advanced technology; long life; and low replacement cost.
- Computerized temperature correction to calibrate the temperature difference between the soldering tip and display temperature.
- Sleep and power-saving function
- Same as the soldering tips of international brand; optional soldering tips according to the different working conditions of users.
- Made of conductive materials; anti-static.

Technical Specifications:

Input Voltage: 220V AC $\pm 10\%$, 50Hz

Output Voltage: 24 V AC

Power Consumption: 60W/80W/100W

Temperature-controlling Range: 150°C ~ 450°C

Temperature Stability: $\pm 1^\circ\text{C}$ (static working mode)

Ground Impedance: $< 2 \text{ Ohm}$

Ground Voltage: $< 2\text{mV}$

Dimension: 167mmx160mmx113mm

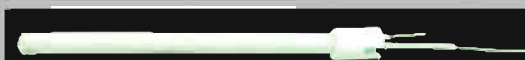
Model of tip: AT-900M



Fuse

Parts list

ATTEN 907 handle	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Heating elements	(2 cores, 60W)AT60D optional
	(2 cores, 80W) AT80D optional
	(2 cores, 100W)AT100D optional



Ceramic heating element, 2 cores, 60/80/100W

AT201D

Advanced Soldering Station

Features and advantage:

- Light-weight handle design, suitable for use for a long time.
- Imported heating element made in high quality materials using advanced technology, extending using life and saves cost.
- Split design of heating element, easy to replace.
- 150~450°C setting temperature, LCD display, using three programmable knobs,
you can choose every temperature you want to set.
- Soldering tip is compatible to any international brand, according to your working condition, you can choose suitable iron tip.
- Soldering station is made of conductive materials makes it anti static.



Technical Specifications:

Input Voltage: 220V $\pm 10\%$ 50Hz

Output voltage: 26V AC

Temperature range: 150~450°C

Temperature stability: $\pm 1^\circ\text{C}$ (static working model)

Leak resistance of soldering tip : $< 2 \text{ Ohm}$

Leak voltage of soldering tip: $< 5\text{m}$

Dimension of iron tip: AT-900M

Parts list

ATTEN 907 handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Heating element(2 cores, 60W)	optional



Ceramic heating element, 2 cores, 60W

AT204D



ATTEN
INSTRUMENTS

**SOLDERING
STATION**

AT306DH

SMD Advanced **high frequency** soldering station



Features:

- Use high quality electromagnetic heating element, high-frequency eddy current heating, for rapid warming. From room temperature to 350°C just only 20 seconds. Temperature sensitive, back to the temperature rapidly.
- Split design of heating element and soldering iron, Soldering tip is compatible international brand, cost-saving and easy to replace.
- Precise temperature control, stability, LED display to enhance visual.
- Using secret word temperature lock to protect operator from cliché temperature and to ensure easy management.
- The digital temperature calibration and accurate calibration.
- Automatic sleep function to save energy, upon any wake up the soldering iron backs up to the preset temperature rapidly.
- Self-fault detection, easy to maintain.
- Anti-static design.

Technical Specifications:

Input Voltage: 220V AC $\pm 10\%$, 50Hz

Output Voltage: 36 V AC / 400KHz

Temperature-controlling Range: 100°C -500°C

Temperature Stability: $\pm 5^\circ\text{C}$ (no wind,no load)

Heateing element: High- frequency eddy current

Ground Impedance: $< 2 \text{ Ohm}$

Ground Voltage: $< 2\text{mV}$

Dimension: 160mmx106mmx152mm

Parts list

High frequency handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
High frequency heating element	optional



High frequency heating element

HIGH
FREQUENCY
SOLDERING
STATION

AT306H

SMD Advanced **high frequency** soldering station



Features:

- Use high quality electromagnetic heating element, high-frequency eddy current heating, for rapid warming. From room temperature to 350°C just only 20 seconds. Temperature sensitive, back to the temperature rapidly.
- Split design of heating element and soldering iron, Soldering tip is compatible to any international brand, cost-saving and easy to replace.
- Aluminum alloy shell design, steady-going and stable.
- Using mechanical temperature lock.
- Anti-static design.

Technical Specifications:

Input Voltage: 220V AC $\pm 10\%$, 50Hz

Output Voltage: 36 V AC / 400KHz

Temperature-controlling Range: 100°C ~500°C

Temperature Stability: $\pm 5^\circ\text{C}$ (no wind, no load)

Heating element: High-frequency eddy current

Ground Impedance: $< 2 \Omega$

Ground Voltage: $< 2\text{mV}$

Dimension: 160mmx106mmx152mm



The fine-tuning temperature of soldering station is controlled by tools.

Parts list

High frequency handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
High frequency heating element	optional



High frequency heating element

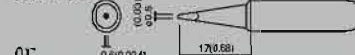
ATTEN
INSTRUMENTS

**HIGH
FREQUENCY
SOLDERING
STATION**

Interchangeable Soldering Tips of Soldering Station (AT-900M)

AT-900M

900M-T-0.8D



0°C

900M-T-1.2D



0°C

900M-T-1.6D



0°C

900M-T-2.4D



0°C

900M-T-3.2D



0°C

900M-T-1.2D



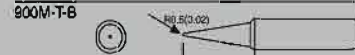
-10°C/-18°F

900M-T-SB



0°C

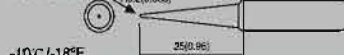
900M-T-B



0°C

□ 900M tip OutDiam ϕ 6.5mm

900M-T-LB



-10°C/-18°F

900M-T-0.5C



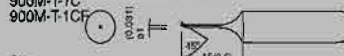
0°C

900M-T-0.8C



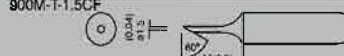
-10°C/-18°F

900M-T-1C



0°C

900M-T-1CF



0°C

900M-T-1.5CF



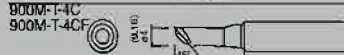
0°C

900M-T-2C



0°C

900M-T-3C



0°C

900M-T-4C



0°C

900M-T-K



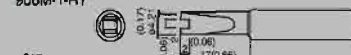
+30°C/+84°F

900M-T-R



0°C

900M-T-RT



0°C

900M-T-SI



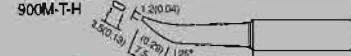
0°C

900M-T-I



-10°C/-18°F

900M-T-H



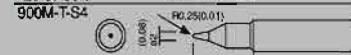
-20°C/-36°F

900M-T-1.8H



-20°C/-36°F

900M-T-S4



0°C

SOLDERING TIPS
AT-900M

ATTEN[®]
INSTRUMENTS

ATTEN®

INSTRUMENTS



AT8502D 2 in 1 Intelligent Lead-free Rework Station

AT8502D is an intelligent lead-free rework station, which combines rework station and soldering station. It is especially suitable for R&D, production, lab of scientific research and so on. Furthermore, it is easy to operate, user-friendly and greatly space-saving.

Product Characteristics:

- ▶ MCU computer thermostat provides high-level algorithm for industrial PID temperature control; more precise temperature control
- ▶ Dual - screen LCD separately displays the current working state and parameters, which is very intuitive. The customer can see the output condition of the equipment very clearly.
- ▶ High output power, rapid warming
- ▶ Pressure diaphragm pump with large flux, which is suitable for all kinds of nozzles in the desoldering SMD components.
- ▶ There are energy-saving functions, such as sleeping, automatic shutdown and so on.
- ▶ First shortcut keys of the handle facilitate the adjustment of temperature and air volume.
- ▶ Three groups of separate memory storage; rapid conversion of different working modes of combining temperature and air volume.
- ▶ Temperature compensation on all the units, which can make sure of the stability of working condition during operation.
- ▶ Malfunction alert function

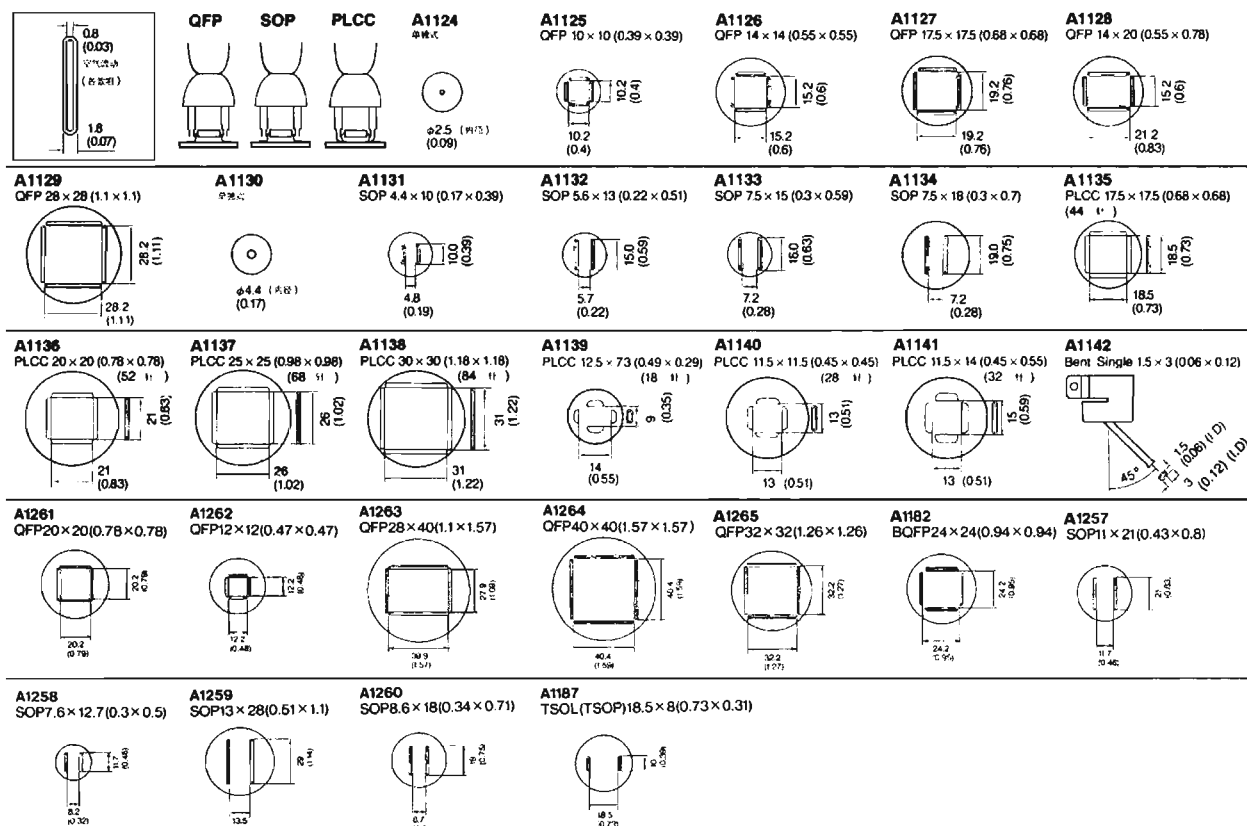
THE **NO.1**
INSTRUMENTS BRAND IN CHINA

<http://www.atten.com.cn>
<http://www.attenelectronics.com>

Technical Specifications

Model	AT8502D	Combined Intelligent Lead-free Rework Station
Total Power	About 900W (max)	Heating 800W(max) Pump(diaphragm) 40W Soldering iron 50W
Temperature-controlling range	Hot Air Rework Station	100–500°C
	Soldering Iron	200–480°C
Temperature unit	°C/°F	Changeable
Temperature-controlling Accuracy	Static	±10°C
Calibration Range	Celsius	50°C — -50°C
	Fahrenheit	-58°F — +122°F
Setting Storage (three groups)	Rework Station (in the factory)	1: 200°C, 40; 2: 300°C, 60; 3: 400°C, 80
	Soldering Iron (in the factory)	1: 200°C; 2: 300°C; 3: 400°C
Range of Air Volume	Rework Station	020–100 level
Dormancy and Standby	Rework Station	Stopping heating, air-blowing delay and then be in the condition of dormancy and standby
Cold Air	Rework Station	Air-blowing made by the machine and stopping heating
Malfunction alert function	Heating core	Displaying H-E
	Sensor	Displaying S-E
Shutdown	Shutdown in the normal condition	Cold air delay shutdown, power off

Specifications and size of the nozzles (denoting dimensions of the flat IC)



SHENZHEN ATTEN ELECTRONICS CO., LTD.

Building A29, Tanglang Industrial Zone, Xili Nanshan, Shenzhen 518055 P.R.China

Tel: 86-755-8602 1376 Fax: 86-755-8602 1337

http://www.attenelectronics.com E-mail: www.atten.com.cn

AT860D

Intelligent reworking station

- Use 800W high power heating element High flux pump and power efficient.
- Dual windows digital shows wing flux ratings, key operation, the elegant appearance.
- Streamlined handle design, control keys on the hand handle for more flexible and easy use.



Features and advantage:

- Double window LED display of the temperature, wing flux and parameter setup
- Display temperature value may be familiar with according to the user in Degree Celsius and in Fahrenheit.
- Have advanced functions like digital temperature calibrations and accurate calibration.
- Control keys are integrated to the handle also makes it more flexible while using.
- Card-type device management in order to avoid accidental change of temperature by the operator.
- Automatic dormancy function to ensure that equipment reduce energy consumption, extend the life of heating element
- Automatic power off feature to protect the equipment cooling.
- Malfunction alert function, when the device have some fault, it will decrease the temperature and goes in auto shutoff mode.
- The air outlet uses the brand-new tornado type design which maintains the stable hot-air temperature and an even airflow output
- The brand-new streamline form handle design, for more convenient & comfortable feel

Specifications:

Input Voltage	220V 50Hz / 110V /60Hz	Customer specified
Total power	800W(max)	Heating
Temperature range	150~500°C/ 302~932°F	Display Range 3-bit LED Digital Tube
Temperature Accuracy	±10°C	Static
Calibration Temperature	±50°C(-58°F ~ +122°F)	Display of LED 3-Digital Tube; The sign bit is showed on the 100-bit.
Setting Storage	Three Groups	Shortcut Storage with 1, 2, 3 levels
Air Volume Range	020 ~ 099 levels	Display of LED 3-Digital Tube
Sleep waiting	100°C(212°F)	Temperature less than 100°C(Left Screen "SLP")
Warning	H-E display	Heating element may damage
	S-E display	Sensor or relative components may damage.
Shutdown	Normal shutdown	Temperature < 100°C, whole device power off.

ATTEN®
INSTRUMENTS

SMD
REWORK STATION

AT8586 Multifunctional Integrated Desoldering Maintenance System **2 in 1**

- Multifunctional Integrated Desoldering Maintenance System Combined by Rework Station and Soldering Station
- The core of the whole machine controlled by the single and microwave chip to make sure of temperature accuracy and stability of rework station and soldering station; not simply combined by the two equipments
- Clear digital display of the current working temperature and conditions
- Temperatures of rework station and soldering station continuously adjusted by digital buttons to meet the needs in different workplaces.
- The two stations can work separately
- Intuitive fault indication function



Rework Station:

Working Voltage: AC220V \pm 10% 50Hz

Output Power: 700W

Temperature Range: 100°C~500°C

Temperature Stability: \pm 5°C

Air Flow: 120L/min (max)

Soldering Station:

Working Voltage: AC 26V 50Hz

Output Power: 50W

Temperature Range: 200°C~480°C

Temperature Stability: \pm 2°C(static)

Ground Impedance: <2 Ohm

Ground Voltage: <3mV

AT858D+ SMD rework station



Specifications:

Category: LED display

Power consumption: 400W

Air Pump: membrane type

Volume of air: 120L/min (max)

Temperature range: 100~450°C

Length of handle: 120cm

Noise : < 45Db

- Sensor closed-loop circuit, zero-crossing triggering microcomputer temperature control, LED display, big power and heating quickly. The accuracy and stability of temperature is not affected by volume of out-air.
- Volume of air is adjustable, big and soft. It is convenient to adjust temperature and fit in varies working method.
- Automatic cool system extends using life of heating element.
- It is smart, durable and beautiful.
- Adopting original import brushless fan, long using life and low noise; high qualified heating element increases the performance twice from the conventional heating element at same power, extending using life of heating element and saves power

■ Nozzle is designed for this device, please choose our accessories

SMD
REWORK STATION

AT850D

Hot Air rework station

Characteristics and Advantages:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on.
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C.
- Original imported heating element, rapid warming, and long life, and good welding safety performance, constant and adjustable temperature.
- Original imported air pump, low vibration, noise design, which can make the workplace quiet.
- Anti-static design to avoid bringing damage to PCB board due to static and creepage.



Technical Specifications:

Input Voltage: 110/220VAC optional

Power consumption: 280W

Air pump: Diaphragm

Volume: 23L/min(max)

Temperature: 100 ~ 480°C

Dimension: 224(L)*126(W)*110(H) mm

Weight: 4.5kg

AT8205

Hot Air rework station



Features and advantages:

- Precise temperature control for stability, easy to operate.
- Quick heating, 2 to 3 seconds upon setting the desired temperature.
- Adopting soft and rotating, uniform heating to protect component better.
- Blowing plastic components won't be deformed. Blowing shielding box will not make it discolor.
- It is convenient and quick.
- Perfect waiting function
- Antistatic design, to protect PCB from static and voltage leakage.

AT8305

LED digital control

Specifications:

Input voltage: 110/220V optional

Power consumption: 1200W

Air Pump: membrane type

Air Output: 400L/min (The max.)

Digital temperature: 100~550 °C

Dimension: 206(L) 187(W) 135(H)mm

Weight: 3.5Kg

Specifications:

Input voltage: 110/220V optional

Power consumption: 1200W

Air Pump: membrane type

Air Output: 400L/min (The max.)

temperature: 50~450 °C

Dimension: 206(L) 187(W) 135(H)mm

Weight: 3.2Kg

ATTEN
INSTRUMENTS

SMD
REWORK STATION

AT850A+

Hot Air rework station

Features and advantages:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on.
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°.
- Original imported heating element, rapid warming, and long life, and good welding safety performance, constant and adjustable temperature.
- Original imported air pump, low vibration, noise design, which can make the workplace quiet.
- Anti-static design to avoid bringing damage to PCB board due to static and creepage.



Technical Specifications:

Input Voltage: 110/220VAC optional

Power consumption: 280W

Air pump: Diaphragm

Volume: 23L/min(max)

Temperature: 100 ~ 480°C

Dimension: 245(L)x187(W)x135(H) mm

Weight: 4.5kg

AT850DB

Hot Air rework station

Features and advantages:

- Sensor closed-loop circuit control, quick heating, easy to set temperature which remains constant throughout
- Antistatic design, to protect PCB from static and voltage leakage.
- Adopting original import heating element, extending using life of heating element
- Adopting original import pump, low-shock, and low-noising and keeping quiet the working environment.
- Intelligent cool system going-on send wind after power off, and cut off power when temperature is less than 100°C
- Suit for de-soldering the most of the SMD component, such as SOIC, CHIP, QFP, PLCC, BGA and so on.

Specifications:

Input voltage: 110/220V optional

Power consumption: 280W

Air Pump: membrane type

Air Output: 23L/min (The max.)

Digital temperature: 100~480°C

Dimension: 245(L)x187(W)x135(H) mm



SMD
REWORK STATION

AT8502

Hot air rework station
& soldering station

2 in 1

Characteristics and Advantages:

- AT8502 is a combo maintains system, suitable varies soldering need, using solder and rework respectively.
- Antistatic design, to protect PCB from static and voltage leakage.
- Sensor closed-loop circuit, instant heating, stable and accurate temperature, de-soldering completely temperature-sensitive components such as SOIC, CHIP, QFP, PLCC, BAG and so on
- Intelligent cool system going-on send wind after power off, and cut off power when temperature is less than 100°C
- Adopting original import heating element, extending the usage life of heating element
- Adopting original import pump, low-shock, and low-noising and it keeps the working environment quiet.



Technical Specifications:

Input Voltage: 110/220VAC optional

Power consumption: 280W

Air pump: Diaphragm

Volume: 23L/min(max)

Temperature range of the nozzle: 100~480°C

Temperature range of the iron tip: 200~480°C

The standard iron tip: AT -900M

Dimension: 247(L)x187(W)x151(H) mm

Weight: 5.7kg

AT850B

Hot Air rework station

Features and advantages:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on.
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C.
- Original imported heating element, rapid warming, and long life, and good welding safety performance, constant and adjustable temperature.
- Original imported air pump, low vibration, noise design, which can make the workplace quiet.
- Anti-static design to avoid bringing damage to PCB board due to static and creepage.



Technical Specifications:

Input Voltage: 110/220VAC optional

Power consumption: 280W

Air pump: Diaphragm

Volume: 23L/min(max)

Temperature: 100 ~ 480°C

Dimension: 224(L)x126(W)x110(H) mm

Weight: 3.2kg

ATTEN
INSTRUMENTS

SMD
REWORK STATION

AT852D

Hot Air rework station

Features and advantages:

- Sensor closed-loop circuit control, quick heating, easy to set temperature which remains constant.
- Antistatic design, to protect PCB from static and voltage leakage.
- Adopting original import heating element, extending using life of heating element
- Adopting original import pump, low-shock, and low-noising, it keeps the working environment quiet.
- Intelligent cool system send wind after power off, and cut off power when temperature is less than 100°C
- Suit for de-soldering the most of the SMD component, such as SOIC, CHIP, QFP, PLCC, BGA and so on.



Technical Specifications:

Input Voltage: 110/220VAC optional
Power consumption: 280W
Air pump: membrane type
Volume: 23L/min(max)
Temperature: 100 ~ 480°C
Dimension: 224(L)×126(W)×110(H) mm
Weight: 3.2Kg

Specifications and the size of the nozzles (denote dimensions of flat IC)

<p>A1129 QFP 28 × 28 (1.1 × 1.1)</p>	<p>A1130 SOP 10 × 10 (0.39 × 0.39)</p>	<p>A1131 SOP 4.4 × 10 (0.17 × 0.39)</p>	<p>A1124 PLCC</p>	<p>A1125 QFP 10 × 10 (0.39 × 0.39)</p>	<p>A1126 QFP 14 × 14 (0.55 × 0.55)</p>	<p>A1127 QFP 17.5 × 17.5 (0.68 × 0.68)</p>	<p>A1128 QFP 14 × 20 (0.55 × 0.78)</p>
<p>A1136 PLCC 20 × 20 (0.78 × 0.78)</p>	<p>A1137 PLCC 25 × 25 (0.98 × 0.98)</p>	<p>A1138 PLCC 30 × 30 (1.18 × 1.18)</p>	<p>A1139 PLCC 12.5 × 73 (0.49 × 0.29)</p>	<p>A1140 PLCC 11.5 × 11.5 (0.45 × 0.45)</p>	<p>A1141 PLCC 11.5 × 14 (0.45 × 0.55)</p>	<p>A1142 Bent Single 1.5 × 3 (0.06 × 0.12)</p>	
<p>A1261 QFP 20 × 20 (0.78 × 0.78)</p>	<p>A1262 QFP 12 × 12 (0.47 × 0.47)</p>	<p>A1263 QFP 28 × 40 (1.1 × 1.57)</p>	<p>A1264 QFP 40 × 40 (1.57 × 1.57)</p>	<p>A1265 QFP 32 × 32 (1.26 × 1.26)</p>	<p>A1266 QFP 24 × 24 (0.94 × 0.94)</p>	<p>A1267 SOP 11 × 21 (0.43 × 0.8)</p>	
<p>A1258 SOP 7.6 × 12.7 (0.3 × 0.5)</p>	<p>A1259 SOP 13 × 28 (0.51 × 1.1)</p>	<p>A1260 SOP 8.6 × 18 (0.34 × 0.71)</p>	<p>A1261 TSOL (TSOP) 18.5 × 8 (0.73 × 0.31)</p>				

SMD
REWORK STATION

AT853A

Hot Air and Preheating Rework Station



It applies to PCB board preheating, heating and the demolition and welding of electronic, electrical appliances, communications, maintenance, etc.

Characteristics and Advantages:

- Quick Heating, up to 350°C only in 10 seconds.
- Temperature sensor keeps the output temperature stable.
- Optional cool flow can preheat and cool chip.
- Working with AT reworking station to deal with BGA and chip IC.
- Smart and Compact design and appearance, easy to carry.
- Automatic temperature control, Can work continuously working for long hours, not affecting the function of the device and the temperature of panel won't exceed the standard temperature.

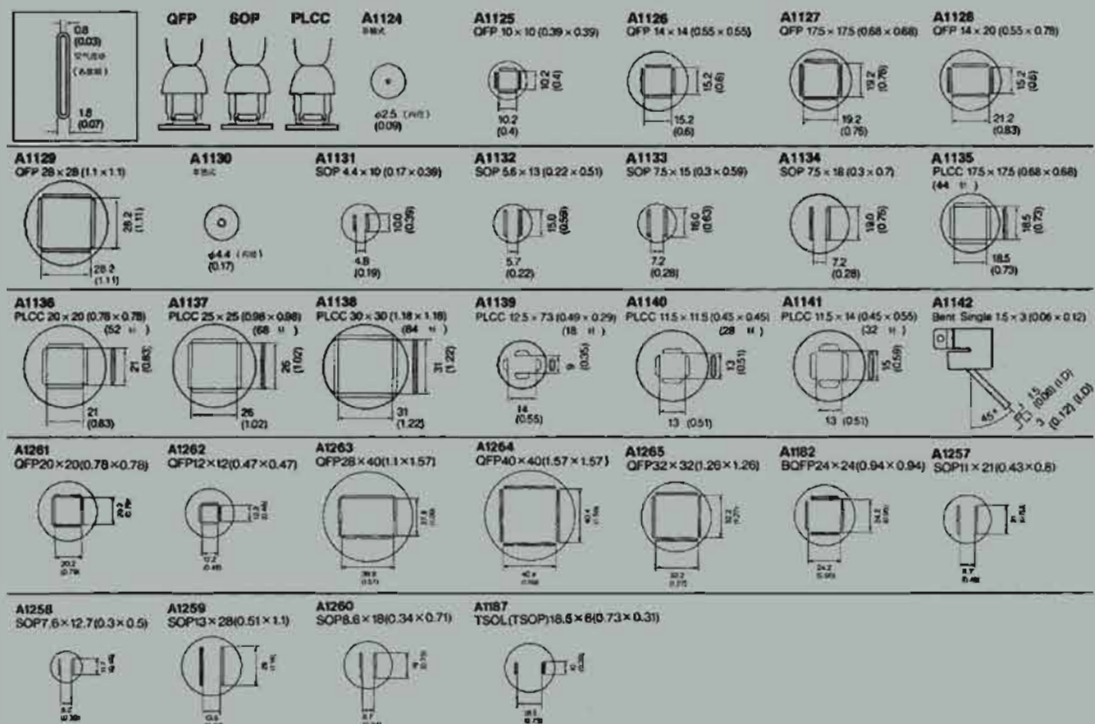
Specifications

Input voltage	2200V, $\pm 10\%$, 50Hz ~60Hz
Temperature range	100 ~ 350°C
Air output range	0.18m ³ /min
Output power	540W
Dimension	170mm x 140mm x55mm
Weight	1.1Kg (not including power line)

ATTEN
INSTRUMENTS

**Hot Air &
Preheating
Rework Station**

Specifications and the size of the nozzles *(denote dimensions of flat IC)*



Replaceable nozzles (mm)



Series parties list

PCB-1

Membrane type Air Pump

5 cores line

AT850 handle cover

Power line

8205 whole handle set

4 cores heating element

With a sheath 2-core heating element

PCB-2

Batten's air pump

Silicone tube

AT850 handle under cover

LED display

AT850 transformers

AT850 whole handle set

Spectrum Analyzers



AT6060D/AT6030D series



AT6011/AT6010 series



AT5011*/AT5010 series

Digital Oscilloscope



ADS1000 digital oscilloscope series



ADS2000 digital oscilloscope series



ADS7000 digital oscilloscope series

RF Microwave Components



ATPS programmable Attenuator



YTO DEH Oscillator



High-power coaxial attenuator rotation

Education Training Kits



AT3000 Waveguide Training System



RF3020/RF3030 RF Training System Kit



AT3200 Antenna Training System

