# MISCELLANEOUS





# DC to AC Power Inverter









## **Modified Sine Wave 230V**



Accessories: only for TE-1203UB/ TE-1403UB







## **Microprocessor Controlled**

- Make work smart and accurately. Converts 12-volt/24-volt DC to 230-volt AC power.
- Initial checking: Auto-detecting wrong battery cont. such as 12/24V.

- Unique Protective Design
   Unique soft start to protect output short circuit.
- Low battery/Over-load/Over-heat: Shut-down or pre-alarm function.

## **Voltage Isolation**

• High /Low voltage completely isolation for safety.

#### **Extra USB Output**

• Extra 5V USB output for using/ charging mobile phones and other USB

Model No.	TE-1201UB	TE-1401UB	TE-1203UB	TE-1403UB	
Input full load current	15A (12V) // 8A (24V)		30A (12V) // 15A (24V)		
Output continuous power	150W		30	300W	
Output surge power	45	OW	90	OW	
No load current draw	< 0.4A (12V)	< 0.3A (24V)	< 0.6A (12V)	< 0.5A (24V)	
Input voltage	DC12V:10~15V	DC24V:20~30V	DC12V:10~15V	DC24V:20~30V	
Output voltage/ frequency		AC 220~240V, 50Hz	z Crystal controlled	I	
USB port output		5VDC (500	mA MAX.)		
Output waveform		Modified sine wave	•		
Efficiency	> 90%				
Output regulation		± 5% Intel	ligent AVR		
Auto temperature control fan	Ne	on	Yes		
Low battery pre-alarm & shutdown	< 11V or 22V ± 0.5V or 1V Pre-alarm < 10V or 20V ± 0.5V or 1V Shut down & alarm		< 10.5V or 21V ±0.5 or 1.0V Pre-alarm < 10V or 20V ±0.5V or 1.0 Shut down & alarm		
Over heating		> 60°C Pre-alarm,	> 65°C Shut down		
Over load	> 170W Pre-alarm, > 178W Shut down & alarm		> 310W Pre-alarm, > 324W Shut down & alarm		
Fuse	15A×1 pcs	10A×1 pcs	35A & 15A×1 pcs	20A & 15A×1 pcs	
AC outlet	B € ••••				
Dimension (LxWxH)	113 × 73	× 58 mm	140 × 73 × 58 mm		
Weight	0.5	kg	0.75 kg		
Individual packing	Color Box		г Вох		

# DC to AC Power Inverter







# **Modified Sine Wave 230V**



## **Microprocessor Controlled**

- Make work smart and accurately. Converts 12-volt/24-volt DC to 230volt AC power.
- Initial checking : Auto-detecting wrong battery cont. such as 12/24V.

## **Unique Protective Design**

- · Unique soft start to protect output short circuit.
- Low battery/Over-load/Over-heat: Shut-down or pre-alarm function.

### **Voltage Isolation**

• High /Low voltage completely isolation for safety.





Accessories for TE-1206B/TE-1406B

Accessories for TE-1210B/TE-1410B

Model No.	TE-1206B	TE-1406B	TE-1210B	TE-1410B
Input full load current	60A (12V) // 30A (24V)		100A (12V) // 50A (24V)	
Output continuous power	60	0W	100	00W
Output surge power	150	ow	240	00W
No load current draw	< 0.6A (12V)	< 0.4A (24V)	< 0.6A (12V)	< 0.5A (24V)
Input voltage	DC12V:10~15V	DC24V:20~30V	DC12V:10~15V	DC24V:20~30V
Output voltage/ frequency	AC	C 220~240V, 50Hz	Crystal control	ed
Output waveform	N	lodified sine way	/e	_
Efficiency	85 ~ 90%			
Output regulation	± 5% Intel	ligent AVR	±5% Intelligent PWM	
Auto temperature control fan	Yes			
Low battery pre-alarm & shutdown	< 10.5V ±0.5V or 21V ± 1V Pre-alarm < 9.5V ±0.5V or 20V ±1V Shut down & alarm		< 10.5V ±0.5V or 21V ± 1V Pre-alarm < 9.5V ±0.5V or 19V ±1V Shut down & alarm	
Over heating	> 60°0	C Pre-alarm, > 65	°C Shut down &	alarm
Over load	> 615W Pre-alarm, > 644W Shut down & alarm		> 1140W Pre-alarm, > 1187W Shut down & alarm	
Fuse	25A × 3 pcs 15A × 3 pcs		20A x 6 pcs	10A x 6 pcs
AC outlet	B (• • • • • • •			
Dimension (LxWxH)	190 × 113	3 × 62 mm	340 × 135 × 79 mm	
Weight	1.5 kg		2.5 kg	
Individual packing	Color I		r Box	

# MS-325 7 in 1 Multi-Function **Pocket Tool Key Chain**









rp blade can cut!











MS-525



and corrosion-resistant.

with nonslip grip.

· Made of stainless steel, rugged

· Anodized aluminum handles

9-in-1 Multi-Tool





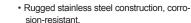




12-in-1 Multi-Tool







**MS-526** 

- With nonslip rubber grip handle, more durable and comfortable.
- Comes with spring loaded long nose cutting pliers head.







3Cr13
45°±3°
Pliers, Scissor, Saw, Philips, Screwdriver, Bottle Opener, Can Opener, Knife, Flat File, Flat Screwdriver, Awl/Knife, Flat Screwdrive
155
Double blister card

#### Material 2Cr13 HRC Body 45°±2 Serrted Saw,Openner & Slotted Screwdriver, Phillips Screwdriver,Fruit Knife,Mini LED Flashlight OAL.(mm) 67x32 Individual packing Double blister card

Material	3Cr13, ABS
HRC Body	45°±3°
Application	Serrated Knife, Can Opener, Philips, Pliers, Screwdriver, Knife, Saw, Bottle Opener, Flat Screwdriver, Flat File
OAL.(mm)	160
Individual packing	Double blister card

#### **LED Flexible Flashlight** FL-603



Light source	Illumination	Cable size	Handle size	Battery	Individual packing
White LED	11000mcd	Ø5mm x 345mm	Ø15mm x 175mm	1.5V AAA x 3pcs (not included)	Blister card

# ► FL-528 1W LED Head Light



Lamp Material	Light source	Illumination	Battery	Dimension (mm)	Individual packing
ABS	1W white micro LED	60 Lumens	3 x 1.5V AAA	73x45x65	Blister card

# ► FL-506 LED Flashlight





- Rugged design aluminum body and contoured body for firm grip.
- · Light weight and easy to carry. · Switch on/off control on the bottom.

Aluminum	LED	1.5V AA x 2pcs (Not included)	ø25x150	Blister card
Material	Light soure	Battery	OAL.(mm)	Individual packing

#### FL-516 9 LED Flashlight



- Sturdy anodized aluminum construction, sealed at both ends with high grade rubber o-rings, water repellent and 1M drop protection
- LEDs last up to 100,000 hours



Material	Light soure	Battery	OAL.(mm)	Individual packing
Aluminum	9pcs White LEDs	1.5V AAA x 3pcs (Not included)	ø27x92	Blister card

# MS-C002 Mini Vacuum & Blowing Cleaner



#### MS-C001 **Mini Vacuum Cleaner**





# Rohs Speed 25,000rpm

High speed rpm and easy-to-use handy vacuum cleaner with attachments for vacuuming / blowing / brushing off dirt and dust.









Crevice tool



Vacuum cleaner

Speed

25.000 rpm

Torque

26 g-cm

Brush for sweeping

away uusi		
Voltage	Body size	
DC 6.0V (AA 1.5V×4 pcs)	Ф45×130×90 mm	

RoHS	•

- Cleans keyboards, printer, photographic equipment, audio/visual equipment and all office electronis.
- Compact size design and power by battery.







Material	Voltage	OAL.(mm)	Individual packing
polypropylene	DC 6.0V (AA 1.5V x 4pcs)	128	Blister card

#### MS-C005I **Dust Blowing & Vacuum Cleaner**

5.15W/1.83A



Blowing cleaner

High power, fast clean **Reusing washable dust bag** 

- · High power output 450W.
- · Reusing washable dust bag
- · Easy operation and energy-saving.
- · Large power trigger with conveniently located lock-on button.
- Maximum air volume of 2.3m³/min for faster clean up.
- · Combines blowing and vacuum functions, quickly converts to a vacuum for added versatility.



Accessories: 1 x Air flow tube 1x Dust bag

Power	450 W
Voltage	230V / 50Hz
No load speed	0-16000 rpm
Air Voltage	2.3m³/min
Weight	50 oz (1.4Kg)
Accessories	1 x Air flow tube, 1x Dust bag
Dimensions	24.0 cm x 19.0 cm x 16.7 cm)
Individual packing	Color box

#### **Bulb Blower** MS-153A / MS-153C





## MS-153A

Comes with copper nozzle, providing high air pressure for removing dust safely and gently.













Model No.	Material	Nozzle Material	Nozzle Size	Air valve Material	Pump capacity	OAL.(mm)	Individual packing
MS-153A	PVC	copper with chrome plating	Φ 2.2×14 mm	copper with chrome	50 ml	Φ 42×94	Distance
MS-153C	FVC	ABS	Φ 5.0×30mm	plating	110 ml	Φ 56×140	Blister card



#### Fish Tape DK-2032 / DK-2033N / DK-2034N









**DK-2032** 

**DK-2033N** 

**DK-2034N** 

Model No.	Container size(mm)	Steel tape size	Individual packing
DK-2032	Ø 214x27	15.2Mx3.2x1.6mm (50ftx1/8"x1/16")	
DK-2033N	Ø 305x42	30.5Mx3.2x1.6mm (100ftx1/8"x1/16")	PE shrink
DK-2034N	Ø 305x42	61.0Mx3.2x1.6mm (200ftx1/8"x1/16")	

- Made from flexible spring steel and black finish.
- Equipped with durable plastic container and slide handle.
- Easy to thread through the pipe and pull out the electric cable.

# DK-2060SET/DK-2040 / DK-2041 / DK-2042

# **Measuring Tape**





Model No.	L (Max.)	W (Max.)	Thickness(mm)	Blade coating	Individual packing
DK-2060SET	3M/10ft	16mm	0.115	PVC	Display box
DK-2040	3M/10ft	16.5mm	0.115		
DK-2041	5M/16ft	23.0mm	0.115	Nylon	Blister card
DK-2042	7.5M/25ft	24.5mm	0.110		

- Magnetic end-hook for convenient measuring. Anti-slip and shockproof rubber case.
- · Hi-rel power tape.

#### 6" Electronic Caliper PD-151

#### 6" Standard Caliper PD-153







- · Hardened stainless steel.
- High quality 6"(150mm), thumb wheel for accuracy and ease with 4 measurement: inside, outside, depth and step.
  • Precision-ground and lapped measuring surface.

Model No.	Material	Range	Accuracy	Resolution	Power	Individual packing
PD-151	AISI 430	0~150mm/0~6"	±0.02mm/0.001"(<100mm) ±0.03mm/0.001"(>100mm)	0.01mm/0.0005"	LR44 (1.5V)×1 pcs	Plastic box
PD-153		0~150mm/0~6"	±0.02mm/0.001"	0.02mm/0.001"	N/A	Color label sleeve



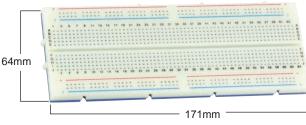


Inside diamension

Outside diamension

#### **Round Hole Bread Board BX-4112N**





840 tie points





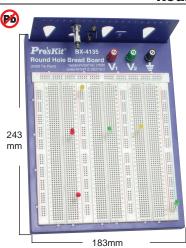
**Excellent expandability** 

Friendly graduations

- 840 tie points
- Round hole designed for easy plug and pull
   Expandable by combining several boards together to meet your different requirement
- Wearproof material made of ABS & phosphor bronze with good flexibility and electric conductivity

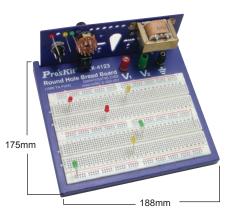
Individual packing Blister card

#### BX-4123 / BX-4135 **Round Hole Bread Board**



2420 tie points (Demo only) **BX-4135** 

**TAIWAN PATENT NO. 215526 CHINA PATENT ZL 03231122.2** 



BX-4123 1580 tie points (Demo only)

Model No.	Tie points	Individual packing
BX-4123	1580	Di'atan and
BX-4135	2420	Blister card





Edge plate can easily fold up

#### Application:

Used as a simulated layout for R&D and students.

## Features:

- Round hole designed for easy plug and pull
- Expandable by combining several boards together to meet your different requirement
- Wearproof material made of ABS & phosphor bronze with good flexibility and electric conductivity

#### **Bread Board Accessory** OP-E070 / OP-E351





- 70 pcs of 22 AWG solid wires
- Pre-cut, pre stripped and pre-formed on each end
- Variety of colors
- Completely reusable
- 14 lengths x 5 pcs each

(2, 5, 7, 10, 12, 15, 17, 20, 22, 25, 50, 75, 100 and 125mm)

Case Size (mm)	Individual packing
165x55x15	Poly bag + Hanger



- 350pcs of 22 AWG solid wires
- Pre-cut, pre stripped and pre-formed on each end
- Variety of colors
- · Completely reusable
- 14 lengths x 25 pcs each

(2, 5, 7, 10, 12, 15, 17, 20, 22, 25, 50, 75, 100 and 125mm)

Case Size (mm)	Individual packing
178x90x28	Poly bag + Hanger

# 8PK-610 PLCC Extractor

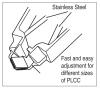


#### **PLCC Extractor** PD-610











A spring assisted chip carrier extraction tool specially designed for the safe removal of PLCC's from sockets without damage to component parts.



908-609	IC Ext	ractor
AISI 410 + POM	100x50	Blister card
	, ,	
Material	OAL (mm)	Individual packing

AISI 410 + POM	100x50	Blister card
Material	OAL (mm)	Individual packing



#### 908-609A **IC Extractor**





Stainless steel construction for removing dual in-line IC packages. (Insulated vinyl grip.) Material OAL (mm) Individual packing

Stainless steel construction for removing dual in-line IC packages.

Model No.	Material	OAL (mm)	Individual packing
908-609A	AISI 420J	112	Inner box

#### **Vacuum Pick-Up Tool** 1PK-122

AISI 420J + PVC

- The hand-held SMD vacuum pick-up tool is ideal for picking up and moving electronic components, large or small. With fountain pen dimensions, it fits easily into your hand or pocket.
- The new high-power probes have longer holding action.

## Function:

908-609

· Lightweight, portable and suitable for picking and placing small components weighing up to 50 grams and having a flat surface, dilly packages and surface mount components, etc.

Replacement caps	Individual packing
9122-010 (3pcs/bag) 4, 6, 10mm	Color box





# MS-121 Vacuum Pick-Up Tool



## **Function:**

- The hand-held SMD vacuum pick up tool is ideal for picking up and moving large or small electronic components.
- · Lightweight, portable and suitable for the picking and placing small components weight to up 50 grams and having a flat surface, dilly packages and surface mount components, etc. The new high-power probes have longer holding action.

Blister card



9122-010 (3pcs/bag) 4, 6, 10mm









# 1PK-390G Inspection Mirror





- · All-angle ball joint mirror with stainless steel back.
- · Visual inspection of hidden areas.
- Double ball joint links swivel mirrors for viewing to 360°.
- Made of tempered spring steel to move freely and hold desired position.
- Replaceable, plated, copper-backed, clear-view mirror.
- Non-rotating inner hex rods prevent mirror from swinging out of alignment.
- Insulating vinyl grip on 1PK-390G.



Lens size	OAL (mm)	Individual packing
50x90mm (2"x3-1/2")	216 ~ 490 (8-1/2"~19-1/4")	Blister card

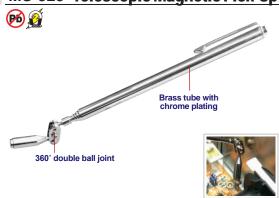
# **MS-391 Inspection Mirror**



# **MS-323 Telescopic Magnetic Pick-Up Tool**



Lens size	Extension length	Individual packing
Ø32mm (1-1/4")	178~505mm	Blister card



Maximum pick-up	Extension length	Individual packing
454g (1lb)	178~582mm	Blister card

# MS-322 Telescopic Magnetic Pick-Up Tool



# **8PK-220 Magnetizer Demagnetizer**







- A handy chrome plated telescopic magnetic retrieving tool.
- · Ideal for hard-to-reach working.
- Extension length: 170-540mm
- Maximum pick-up: 454g(1lb)





RoHS COMPLIANT



- · A convenient pocket sized tool, housed in a strong plastic case.
- · Ideal for the general magnetizer demagnetizer of small hand tool i.e screwdriver, hexagon keys.



Individual packing Blister card

# 8PK-3220 20 in 1 Screwdriver With Telescoping Pick-Up Tool







- (A) Regular screwdriver with 13-pcs. screw bits 5-pcs. sockets and 1-pcs socket adaptor fits all kinds of job.
- (B) Telescoping magnetic pick-up tool (up to 17-1/2" long/440mm) stored inside the tube pulling out to pick up small metal objects.

Individual packing	
Blister card	

### **Spring Hook** 1PK-3171 / 1PK-317N



(P6)

#### 1PK-3175 **5 PCS Hook Set**









1PK-317N





· Can grab small spring and wires.

· Suitable for OA field service.

Model No.	Material	OAL (mm)	Ind
1PK-3171	AISI 410	005	
1PK-317N	+ PVC	205	



5 different hooks can be screwed in a handle.

Model No.	Material	OAL (mm)	Individual packing
1PK-3175	AISI 410	210	Pouch

# 1PK-3178 4PCS Probe Set



- 4pcs stainless steel single-ended probe that can be used for all kinds of precision work in electronics.
- Hook, curved, straight and angle tips 4 types packed in a vinyl pouch.

1PK-3178	AISI 410	Straight:145 Angled:140	Pouch
Model No.	Material	OAL (mm)	Individual packing



Contains 6 parts.

# MS-328 / MS-329 Push-button Pick-up Tool















Open the jaws Pick up the object easily

- MS-328: Push-Button Pick-Up Tool has a 265mm flexible stem with a small set of jaws at one end.
- MS-329: Long Push-Button Pick-Up Tool has a 600mm flexible stem with a small set of jaws at one end.
- · Ideal for home, shop, garage, work place etc.

Individual packing Blister card

# MS-327 Long Pick-up Tool with Magnet Tip









MS-327 (620mm)

**Powerful magnet lifts** 

1.5KG



- Pick up small metallic objects from inaccessible areas
- Long Pick-Up Tool with Magnet Tip is an extendable magnetic tool for picking up small metallic objects from inaccessible areas.
- This Pick-Up Tool has a 620mm flexible stem with a strong magnet at one end.
- · Powerful magnet lifts 1.5KG
- · Ideal for home, shop, garage, work place etc.





# MS-533 Pump-Action Drill Set



**Ideal for drilling soft materials with thickness less** than 5mm thickness, such as woods, pc board, plastic board and more.

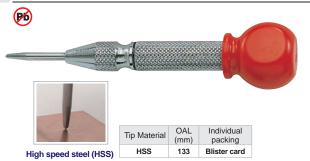
- · Chuck rotates as spindle nut is depressed, spring automatically rewinds to top.
- Drills automatically in a stroke, easy to use and efficient.
- Includes 2pcs collet jaws for bits 0.5mm and 1.0~1.5mm (Bits are not included).
- Brass and steel construction with chrome finish.





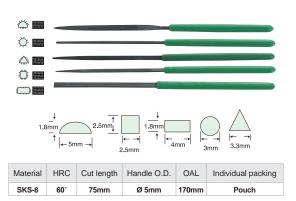


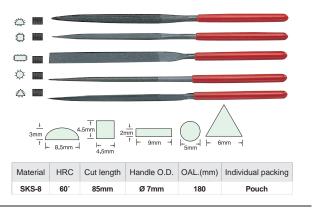




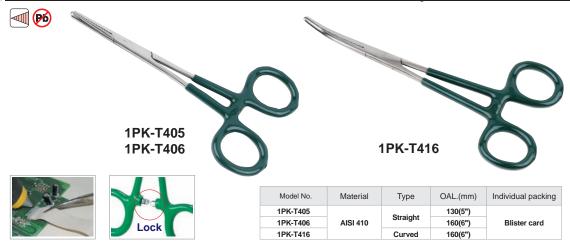
#### **5 PCS Needle File Set** 8PK-605A







# 1PK-T405 / 1PK-T406 / 1PK-T416 Stainless Steel Forceps



# PD-376 Multi-Angle Swivel-Actions Vacu-Vise



- Swivels 360° and tilts 90° to desired angle.
- 2.8" (70mm) metal jaws open to 2.7" (68mm).
- Equipped with slide-on rubber jaw for fragile work.
- 6 1/4" (158mm) triangular base.
- · Aluminum die-cast construction.
- · Light weight and durable.



Individual packing

Plain box+Color label

# PD-374 Hobby Vise



# PD-372 Mini Vise



# PD-2609 8 oz Curved Claw Hammer



Material	Weight	OAL (mm)	Individual packing
Handle: PP/TPR, S45C	227g (8 oz/0.5 lb)	250	Hanger

# PD-2612 8 oz Curved Claw Hammer

- Made of S45C carbon steel, polished drop-forged and tempered steel head
- Curved claw offers maximum nail-pulling leverage



Material	Weight	OAL (mm)	Individual packing
Handle: PVC, S45C	227g (8 oz/0.5 lb)	250	Hanger

# PD-2606 Heavy Duty Curved-Claw



Material	Weight	OAL (mm)	Individual packing
Handle: Fiberglass, S45C	454g (16 oz/1 lb)	330	Bulk

# PD-2607 Ball Pen Hammer



Material	Weight	OAL (mm)	Individual packing
Handle: Fiberglass, S45C	454g (16 oz/1 lb)	300	Bulk

# **MS-161 Heavy-Duty Suction Cup**

- · Ideal for open Imac, Ipad & glass-sheathed laptop displays
- Comes with ABS handle and TPR suction cap, features comfortable grip and high suction capacity up to 11kgs.



Size: Φ58mm x 72mm
 Max. Load: 11kgs (24.3lbs)

Individual packing Blister card



# MS-018 Leak proof dispenser pump bottle

- Portable leak proof construction.
- · Bottle scale indication.
- · Anti dumping of cone design.
- No chemical reaction Polypropylene material.
- · Perfect for fiber cleaning, nail treatment and more.



Material	Capacity	Individual packing
Polypropylene	180ml	Poly bag



# MS-004/MS-006/MS-008

# **Liquid Dispenser Bottles**



- · Polyethylene bottles are not chemically reactive
- · Purity pump to prevent backwash of contaminants into container

Model No.	Description	Individual packing	
MS-004	4 oz/114 ml	Poly bag + Hanger	
MS-006	6 oz/170 ml	Poly bag + Hanger	
MS-008	8 oz/227 ml	Poly bag + Hanger	



(15 pcs/pack)







MS-008

MS-006

MS-004

# ► MS-035 Flux Bottle

• Dispenses flux evenly with a fine tipped needle.



PE	ø37x122	Poly bag + Hanger (2 pcs/pack)
Material	OAL. (mm)	Individual packing

# 7UR / 7UY / 7UG

# **Telecom Splice**



Crimping Tool Page. 90 (1PK-CT006)

	1
900	9
A B A	

Model No.	Description	Application	Individual packing	
7UR	UR connectors 1000 pcs/pack	19~26 AWG		
7UY	UY connectors 1000 pcs/pack	22~26 AWG	Bulk	
7UG	UG connectors 1000 pcs/pack	19~26 AWG		



# MS-V305 / V306 / V308 **Hook and Loop Cable Ties**





# **Cable Tie Assortments-1200 PCS**





Cable Tie Gun Page. 93 (CP-382/CP-385)

Description (mm)	Q'ty	Color	Individual packing
	each	Natural	
2.4x100		Black	
		Red	Color label
		Green	
		Yellow	
2.5x140		Black	
3.6x200	100	Natural	



