

Power Supplies

Bench Power Supplies
Plug-in Power Supplies

214 215

Full range of Power Supplies available at:

www.rapidonline.com

BASETech

0-15VDC 0-3A 45W

The Basetech BT-153

is a Laboratory Power

Supply which is ideal

for universal use in the

research, development,

manufacturing, service

and training fields. The

power supply unit has

a number of features

(automatic switching

and constant current

and current limit).

operation, continuously

All the connections are

made via the sockets on

current and voltages values.

· Finely adjustable output voltage

. Display of output voltage and current

Display of output voltage and current

and constant current operation

Manufacturer's part: Basetech BT-153

Overload and reverse polarity protection

Overload and reverse polarity protection

· Automatic switching between constant voltage

230V AC, 50Hz (±10%)

8 hours max. Fuse: 1A, 250 V (T1AL250V)

0°C to +40°C, <90% RH -10°C to +70°C, <70% RH

≤ 0.2% + 2mV ≤ 0.5mVrms/ ≤ 20mVss

 \leq 3mArms/ \leq 30mAss

Linear regulated PSU

105(W) x 155(H)mm

45W 4mm banana jack

64-6084 60.27

< 0.01% + 1mV

≤ 0.01% + 2mA

≤ 0.2% + 6mA

±1% + 2 digit ±2% + 2 digit

112(W) x 165(H) x 265(D)mm

50Hz (+2Hz)

0 to 15V DC 0 to 3A

100W max

What's in the Box?

Operating instructions

0 to 15V/DC/ 0 to 3A

• 45W maximum output

Linearly-regulated

Technical specification

Adjustable output voltage

Adjustable output current Power consumption:

Cable length: Operating temperature/humidity:

Storage temperature/humidity:

Stability at 10 to 100% load:

Idle state: Stability at 10 - 100 % load:

Ripple (5Hz to 1MHz):

Ripple (5 Hz to 1 MHz):

Continuous operation:

Protection class:

Output voltage

Output current

Display accuracy

No. of outputs

Technology

Power Connections

Dimensions:

Single Output PSU

Weight

Voltage:

Current:

Idle state:

Operating voltage:

Frequency

Basetech BT-153

Power cable

the front of the device. All operating controls and

indicators have been neatly arranged to simplify use.

The corresponding power and voltage values are easily

visible on the high-contrast LED display. Both the output

The control dial on the front of the device is used to set

current and output voltage are shown via the LED displays.

adjustable output voltage

between constant voltage

Bench Power

Supplies

BT-153 Bench PSU Single Output

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₹Rapid

30V 2.5A Regulated Power Supply

The Rapid PS3025 is a high quality, fully regulated, power supply capable of supplying up to 30V at a maximum of 2.5 amps with additional fixed 5V and 12V outputs at 500mA.

 Ideally suited to laboratory test and educational environments

outputs are individually displayed on liquid crystal displays · Output voltage is continuously adjustable via a single

control from 0 to 30V DC Output current limiting is fully adjustable up to 2.5A,

• The 30V output is terminated with 4mm colour coded terminals

loaded colour coded terminal block

· All outputs are overload and short circuit protected

and is supplied with mains lead terminated with a UK

Technical specification Voltage Output 1: 0 to 30V DC continuously variable Current 0 to 2.5A continuously variable Output 2: Voltage +5V (fixed) Current Voltage 500mA +12V (fixed) 500mÅ Current Regulation 0.05% +5mV 0.05% ±5mV

Ripple and noise 0.25mV typical 240V AC 50/60Hz Power requirement

30V 2.5A Reg. PSU **85-1705** 108.89



Voltage and current

again by a single control

The 5V and 12V outputs are terminated via a spring

• The power supply is housed in a sturdy steel enclosure mains plug fused at 5A and user instructions

4.5Kg 200 x 150 x 145mm

Order code 1+

=Rapid

3A Switched Output Switch Mode



A compact, switch mode power supply that offers six selectable output voltages (3, 4.5, 6, 7.5, 9, 12V), and is rated at 3A output current.

• The power supply is housed in a tough polycarbonate housing

· Overload and short circuit protection

• Ideal for a wide range of applications, and is especially

suited for the educational environment

clips and bare ends the other with 4mm plugs and 4-way power plug adaptor

CE approved to EN60950, EN55011

Power Supply

• Output is floated ground (isolated from the mains earth)

Offers excellent performance and reliability at a low-cost

• Output is via 4mm socket/screw terminals Supplied with two sets of leads - one set with crocodile

=Rapid

We bring STEM to life

Technical specification

Output voltage 3V, 4.5V, 6V, 7.5V, 9V, 12V Output current Ripple & noise Line regulation 10mV rms 60mV 300mV Load regulation 90 x 50 x 140mm CE approval EN60950, EN55011

3A Switched o/p PSU

=Rapid

=Rapid

0 to 30V Triple Output DC Regulated PSU

This versatile power supply has been designed for use in general electronic servicing in the laboratory, workshop and classroom. All units can be used in either constant voltage with current limiting or constant current with voltage limiting modes.

Features three independent outputs, two fixed voltage and one variable voltage

• One 0 to 30V variable output

• One 5V 500mA output and one 12V 500mA output

· Separate analogue voltmeter and ammeter

. Current limiting LED indicator

Adjustable current control

Overload and short circuit protection

Compact and lightweight

Robust, galvanized steel case

· Polycarbonate front panel

• Screw on connector for variable output, snap on connectors for fixed outputs

230V AC 50Hz

Approved to CE, EN60065, EN55014

Technical specification Input voltage

Output voltage variable 0 to 30V DC Rated output current Meter accuracy 2 54 ±20% 5V DC 500mA (max. 1A) Output voltage 1 12V DC 500mA (max. 1A) 5mV 0.5% +10mV Output voltage 2 Ripple and noise Load regulation Line regulation 0.5% +10mV Natural convection 150 x 145 x 200mm Cooling systems Dimensions Weight

Order code 1+ Triple o/p PSU 2.5A 85-1707 87.53

VOLTCRAFT

PS-1152A, 22.5W Single Output DC **Bench Power Supply, Linear, Variable**

At just 16cm wide, the Voltcraft PS-1152A makes an ideal basic space saving bench power supply for lower voltage ranges from 1.5V to 15V.

This electronically regulated linear power

supply has a fixed current limit at 1.5A. The PS-1152A is protected against overheating and short circuit. The PSU is convection cooled.

Overheating protection

Short circuit protection

Outputs: 1

Max power: 22.5W

• Voltage setting range: 1.5 to 15V DC

Current limit: 1.5A

Analogue display

Convection cooled

• PSU Technology: Linear DC bench power supply · Manual · Power cable not included



Calibration possible to: Connections

Type (manufacturer type):

Weight:

Input voltage range

ISO / DKD 4mms security sockets 135(W) x 88(H) x 167(D)mm 230V AC

IEC 320 C14 Inputs: Number of outputs: Output current 1: Output power: Output voltage 1: 1.5 to 15V DC PSU type: Specification: Bench

| Туре | Order code | 1+ |
|--------------------|------------|-------|
| Volteraft PS-1152A | 51-1823 | 46 97 |

PS-1152 A

Plug-in Power Supplies



15W Mini Plugtop Switch Mode PSU

A range of high quality plugtop PSUs that offer an output through the moulded female barrel connector.

- 15 Watt continuous
- Input voltage of 100-240V AC
- 5V, 6V, 9V, 12V, 15V and 24V DC versions available
- 2.1 x 5.5 x 12mm female barrel
- +ve centre polarity
- · Short circuit and over voltage
- CE marked and safety approved



64 x 50 x 49.2 including pins (UK)

Technical specification Dimensions (h x d x w) (mm) Input voltage

Output barrel (mm) Output 85-2900 85-2902

Approved

100V to 240V; 50-60Hz; 0.4A 2.1 x 5.5 x 12 5V DC 3A max. 9V DC 12V DC 1.6A max. 1.25A max 1A max. 0.65A max

Voltage protection

Short circuit and over voltage protection 116g approx CE marked and approved

| Voltage | Current | Order code | 1+ | 10+ | 25+ | |
|---------|---------|------------|-------|------|------|--|
| 5V DC | 3A | 85-2900 | 11.49 | 9.46 | 8.43 | |
| 9V DC | 1.6A | 85-2901 | 10.42 | 8.58 | 7.64 | |
| 12V DC | 1.25A | 85-2902 | 10.04 | 8.27 | 7.37 | |
| 15V DC | 1.0A | 85-2903 | 10.46 | 8.62 | 7.67 | |
| 24V DC | 0.65A | 85-2904 | 10.14 | 8.36 | 7.44 | |



Tr Electronics

Mini Plugtop Switch Mode Power Supply

A range of miniature power supplies that offer switch mode performance and are available in several outputs (see price panel for details).

- Wide input voltage range
- Output connector
- 2.1 x 12mm plug · Short circuit,
- overvoltage and overcurrent protection
- Long MTBF of 50,000 hours at 25°C, full load
- Fitted with 140cm cable
- EMI standard CE Class B, Conduction and Radiation
- Safety standards BSMI, CB, CE, GS

Technical specification

Input voltage range 90 to 264V AC 47 to 63Hz Efficiency 63% min. Load regulation Leakage current +5% <0.25mA 0°C to +40°C @ 20 to 80% RH Operating

temperature Storage temperature e -20°C to +60°C @ 10 to 90% RH 52(L) x 29(W) x 89(H)mm

Dimensions Weight

| Output voltage | Output current | Power | Order code |
|----------------|----------------|-------|------------|
| 5.0V DC | 1.5A | 7.50W | 85-2955 |
| 7.5V DC | 1.0A | 7.50W | 85-2956 |
| 12V DC | 1.0A | 1.20W | 85-3070 |
| 12V DC | 0.5A | 6.00W | 85-3071 |
| 15V DC | 0.5A | 7.50W | 85-2959 |
| | | | |

| Voltage | Current | Order code | 1+ | 10+ | 25+ | 100+ |
|---------|---------|------------|-------|------|------|------|
| 5.0V | 1.5A | 85-2955 | 9.53 | 7.76 | 6.90 | 6.34 |
| 7.5V | 1.0A | 85-2956 | 10.78 | 8.77 | 7.80 | |
| 12V | 0.5A | 85-3071 | 6.22 | 5.52 | 4.83 | 4.11 |
| 12V | 1.0A | 85-3070 | 7.20 | 6.62 | 5.88 | 5.14 |
| 15V | 0.5A | 85-2959 | 9.46 | 7.70 | 6.85 | |

Electronics



A range of high quality low cost range of plugtop switched mode power supplies.

- Universal AC input
- Fixed output voltage
- 2.1mm C +VE DC connector
- · RoHS Compliant
- · High reliability
- · Efficiency level IV or VI
- CE approved

| Technical spec | ification | | |
|----------------|-----------|----------|------------|
| Voltage | Current | Part No. | Order code |
| UK Wall plug | | | |
| 5V DC | 2.5A | T6164ST | 85-3747 |
| 12V DC | 1.5A | T6157ST | 85-3744 |
| Euro Wall Plus | g | | |
| 12VDC | 1.5A | T6280ST | 85-3749 |
| | | | |

| Power and plugstyle | Order code | 1+ | 10+ | 25+ | |
|---------------------|--|--|--|--|---|
| 5V, 12.5W, UK | 85-3747 | 8.47 | 7.70 | | |
| 6V, 18W, UK | 85-2906 | 12.51 | 10.06 | 9.24 | |
| 12V, 18W, UK | 85-3744 | 7.88 | 7.17 | | |
| 12V, 18W, Euro | 85-3749 | 5.59 | 5.08 | | |
| | 5V, 12.5W, UK 6V, 18W, UK 12V, 18W, UK | 5V, 12.5W, UK 85-3747 6V, 18W, UK 85-2906 12V, 18W, UK 85-3744 | 5V, 12.5W, UK 85-3747 8.47 6V, 18W, UK 85-2906 12.51 12V, 18W, UK 85-3744 7.88 | 5V, 12.5W, UK 85-3747 8.47 7.70 6V, 18W, UK 85-2906 12.51 10.06 12V, 18W, UK 85-3744 7.88 7.17 | 5V, 12.5W, UK 85-3747 8.47 7.70 6V, 18W, UK 85-2906 12.51 10.06 9.24 12V, 18W, UK 85-3744 7.88 7.17 |

Tr Electronics

UK Mini Regulated Voltage Adjustable PSU

An AC/DC Switching adaptor.

- Input: 100 to 240V
- Current: 1000mA (max)
- Supplied complete with 6 detachable plugs including
- A (2.5mm) , B (3.5mm) , E (5.5x2.1mm), G (5.5x2.5mm) H (3.5x1.35mm) and N (5.5x1.5mm)
- Dimensions of casing: 76.5x43x33mm



Technical specification

Input voltage 100 to 240V AC Input frequency
No load power consumption Input full load current 0.25A 16.5W max

Input power
Output Light load output voltage

 $\begin{array}{c} 3.0/4.5/5.0/6.0/7.5/9.0/12.0 \text{V DC } \pm 10\% \\ 3.0/4.5/5.0/6.0/7.5/9.0/12.0 \text{V DC } \pm 10\% \end{array}$ Full load output voltage Min load output current Max load output current 20MHz.Each output bypassed by a 10uF 0.5% Input 90 to 264V AC output loaded at full load Noise test bandwidth Line regulation Setup, rise, hold uptime 200ms,30ms,17ms/115V AC; 200ms,20ms,80ms/230VAC

Complied with EUP

Overall performance Total output power Efficiency Hi-pot Input to output

3000V AC 5mA 50/60Hz Input to case 3000V AC 5mA 50/60Hz Output to case Isolation resistance 1500V AC 5mA 50/60Hz 100MΩ Environmental

Operating temperature Storage temperature Operating humidity

0°C to +25°C -20°C to +50°C 20%-85% RH. Non-condensing 10%-90% RH Non-condensing 76.5(L)x 42.4(W)x 72.2(H)mm

Storage humidity

Mechanical specification

Dimension Weight

| e | Order code | 1+ | 10+ | 25+ | |
|------------------|------------|------|------|------|--------|
| ni regulated PSU | 85-1683 | 7.37 | 6.76 | 6.39 | |
| | | | | | 401000 |

IDEAL POWER

25HK-U Series Plug-in 6W PSUs and adaptor Plugs

A wide range of good quality 6W plug-in power supplies from Ideal Power. These PSUs from the 25HK-U series are supplied with a UK plug adaptor that is interchangeable with Euro, Australia and USA adaptors (supplied separately).

The PSUs have the unique ability to be used as a desktop PSU as well, without the

adaptor fitted, (requires C8 lead, figure 8). The PSUs comply with CEC V / ErP 2.0 Efficiency Regulations, with a typical efficiency of more than 73%.

- CEC V / ErP 2.0 Efficiency Regulations Compliance
- Efficiency >73% typical
- Over current protected
- Operating temperature 0°C to +40°C
- Interchangeable from UK to USA, EURO, Australian
- Limited Power Source (LPS)
- Unique Ability to be used as a Desk Top as well (without the adaptor fitted)
- Small Compact design
- Very Low Power Consumption (<0.3W)
- . RoHS, REACH and CE Directive Compliant

| Туре | Order code | 1+ | 3+ | 10+ | |
|----------|------------|-------|-------|-------|--------|
| USA Plug | 18-1492 | 0.636 | 0.569 | 0.529 | |
| | | | | | 525471 |



5V DC 1A USB UK Pins

This 5V DC 1A USB power supply has a 90-264V AC input for world use. It carries full international safety approvals and meet the latest ErP stage 2 requirements with high reliability (M.T.B.F of 50K hours at 25 degrees C.) The SW4492-V2 power supply can be used to charge a wide range of products. These PSUs are available in black or white.



- Output: 5V DC 1A
- Power (Watts): 5W
- DC Plug: USB socket
- Rated input voltage: 90 to 264V AC

| Case colour | Order code | 1+ | 10+ | 25+ | |
|-------------|------------|------|------|------|--|
| Black | 85-2893 | 5.09 | 4.61 | 4.46 | |
| White | 85-2894 | 4.56 | 4.17 | 4.04 | |



Level VI UK Plugtop Switched Mode Power Supply Units

A range of switched mode plugtop **power supplies** from **TT Electronics**. The power supplies have a standard UK 13A or Eurostyle plug and a standard 5.5 x 2.1mm centre positive output



- Level VI efficiency compliant
- Short-circuit, over-current and over-voltage protection
- 1 year manufacturer's warranty
- Stontronics T6 series

| Voltage | Max. current | Order code | 1+ | 10+ | 25+ | |
|-----------|--------------|------------|-------|------|------|--------|
| UK plug | | | | | | |
| 5V DC | 1A | 85-3008 | 5.31 | 4.83 | 4.57 | |
| 12V DC | 0.5A | 85-3006 | 5.05 | 4.69 | 4.02 | |
| 12V DC | 2A | 90-2766 | 7.10 | 6.65 | 6.40 | |
| 15V DC | 1.6A | 85-3756 | 7.73 | 6.94 | 6.50 | |
| 18V DC | 1.33A | 85-3757 | 11.13 | 9.81 | 8.47 | |
| 24V DC | 1A | 85-3746 | 8.79 | 7.68 | 7.03 | |
| Euro plug | | | | | | |
| 5V DC | 1A | 85-3729 | 5.31 | 4.83 | 4.57 | |
| 9V DC | 0.66A | 85-3728 | 4.12 | 3.75 | 3.56 | |
| 12V DC | 0.5A | 85-3727 | 4.56 | 4.11 | 3.90 | |
| | | | | | | EC4071 |



Line Tracking Mouse Kit

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6 to 24W AC/DC UK Plugtop Power Supplies Level VI









=Rapid

These plugtop power supply units have fixed UK plugs and comply with Level VI efficiency regulations. These high reliability PSUs have a universal voltage input, making them ideal for a wide range of applications.

- · Available in a range of output voltages
- 2.1 x 5.5mm connector (except 18-1626)
- 18-1626 has a USB A output connector
- 100% ATE tested

- . Built in OVP, OCP and SCP
- 100% smart burn-in test for 4 hours
- . Approved to CE-EMC, LVD and REACH

| | -, | | | |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|
| Technical specification | | | | |
| Order code | 18-1626 | 18-1627 | 18-1628 | 18-1629 |
| Part number | 15DYS605-050120S-6 | 15DYS605-050120W-5 | 15DYS612-050240W-3 | 15DYS618-050350W-3 |
| Input | | | | |
| Input range | 90 to 264V AC |
| Input current @ 90V AC | 0.2A | 0.2A | 0.4A | 0.5A |
| Input current @ 2640V AC | 0.1A | 0.1A | 0.15A | 0.2A |
| Input connector | UK 3-pin | UK 3-pin | UK 3-pin | UK 3-pin |
| Output | | | | |
| Output voltage | 5V | 5V | 5V | 5V |
| Output current | 1.2A | 1.2A | 2.4A | 3.5A |
| Max. power | 6W | 6W | 12W | 18W |
| Output connector | USB A | 2.1 x 5.5mm | 2.1 x 5.5mm | 2.1 x 5.5mm |
| General | | | | |
| Efficiency regs. compliance | Level VI | Level VI | Level VI | Level VI |
| Operating temperature | 0°C to +45°C | 0°C to +45°C | 0°C to +45°C | 0°C to +45°C |
| Order code | 18-1630 | 18-1631 | 18-1632 | 18-1633 |
| Part number | 15DYS624-075320W-3 | 15DYS618-090160W-3 | 15DYS605-120050W-5 | 15DYS612-120100W-3 |
| Input | | | | |
| Input range | 90 to 264V AC |
| Input current @ 90V AC | 0.8A | 0.5A | 0.2A | 0.4A |
| Input current @ 264V AC | 0.4A | 0.2A | 0.1A | 0.15A |
| Input connector | UK 3-pin | UK 3-pin | UK 3-pin | UK 3-pin |
| Output | | | p | 5.1.2 p |
| Output voltage | 7.5V | 9V | 12V | 12V |
| Output current | 3.2A | 1.6A | 0.5A | 1A |
| Max. power | 24W | 15W | 6W | 12W |
| Output connector | 2.1 x 5.5mm | 2.1 x 5.5mm | 2.1 x 5.5mm | 2.1 x 5.5mm |
| General | 2.1 % 0.011111 | 2.1 x 0.0 | 2.1 x 0.0 | 2.1 x 0.0 |
| Efficiency regs. compliance | Level VI | Level VI | Level VI | Level VI |
| Operating temperature | 0°C to +45°C | 0°C to +45°C | 0°C to +45°C | 0°C to +45°C |
| operating temperature | 0 0 10 1 43 0 | 0 0 10 140 0 | 0 0 10 143 0 | 0 0 10 140 0 |
| Order code | 18-1634 | 18-1635 | 18-1636 | |
| Part number | 15DYS618-120150W-3 | 15DYS618-150120W-3 | 15DYS618-240075W-3 | |
| Input | | | | |
| Input range | 90 to 264V AC | 90 to 264V AC | 90 to 264V AC | |
| Input current @ 90V AC | 0.5A | 0.5A | 0.5A | |
| Input current @ 264V AC | 0.2A | 0.2A | 0.2A | |
| Input connector | UK 3-pin | UK 3-pin | UK 3-pin | |
| Output | | | | |
| Output voltage | 12V | 15V | 24V | |
| Output current | 1.5A | 1.2A | 0.75A | |
| Max. power | 18W | 18W | 18W | |
| Output connector | 2.1 x 5.5mm | 2.1 x 5.5mm | 2.1 x 5.5mm | |
| General | | | | |
| Efficiency regs. compliance | Level VI | Level VI | Level VI | |
| Operating temperature | 0°C to +45°C | 0°C to +45°C | 0°C to +45°C | |
| | | | | |

| Туре | Order code | 1+ | 10+ | 100+ | |
|-------------|------------|-------|-------|------|--------|
| 5V 1.2A USB | 18-1626 | 11.43 | 6.73 | 5.06 | |
| 5V 1.2A | 18-1627 | 10.36 | 6.48 | 4.78 | |
| 5V 2.4A | 18-1628 | 13.35 | 8.19 | 5.91 | |
| 5V 3.5A | 18-1629 | 16.71 | 9.70 | 7.23 | |
| 7.5V 3.2A | 18-1630 | 19.44 | 12.28 | 8.60 | |
| 9V 1.6A | 18-1631 | 16.09 | 9.70 | 7.23 | |
| 12V 0.5A | 18-1632 | 10.09 | 6.40 | 4.78 | |
| 12V 1A | 18-1633 | 10.22 | 8.18 | 6.01 | |
| 12V 1.5A | 18-1634 | 16.39 | 9.70 | 7.23 | |
| 15V 1.2A | 18-1635 | 16.39 | 9.70 | 7.23 | |
| 24V 0.75A | 18-1636 | 13.02 | 9.64 | 7.23 | |
| | | | | | 565042 |

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