



Power Supplies

Bench Power Supplies	222
Plug-in Power Supplies	224

Full range of Power Supplies available at:

www.rapidonline.com

Bench Power Supplies

BASETech

BT-305 Single Output 150W Variable Bench Power Supply

The Basetech BT-305 is a continuously adjustable linear DC Power Supply with specifications and design/build quality that stretch beyond other PSUs in its price bracket.



Both output voltage and current limit can be set independently using the front mounted dials, including fine adjustment for voltage. The BT-305 has two easy to read LED displays, showing the voltage and current output, even when the PSU's output is Off.

Automatic switching between constant voltage and constant current mode, and infinitely adjustable current limiting and output voltage make this power supply unit the perfect entry level model for hobby and model construction.

- Single 0-30V variable output, 0-5A
- Coarse and fine voltage adjustment
- Automatic switching between constant current and constant voltage modes
- Toggle output On/Off, voltage and current remain displayed
- Convenient carrying handle
- Weight 5.3kg
- Manufacturer's part: **Basetech BT-305**

Cable supplied.

Type	Order code	1+
Bench power supply	52-1977	101.92

544235

BASETech

BT-153 Bench PSU Single Output 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 between constant voltage and constant current operation, continuously adjustable output voltage and current limit).



All the connections are made via the sockets on 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 current and output voltage are shown via the LED displays.

The control dial on the front of the device is used to set current and voltages values.

What's in the Box?

Basetech BT-153
Power cable
Operating instructions

- Finely adjustable output voltage
- Display of output voltage and current
- Overload and reverse polarity protection

- Display of output voltage and current
- Overload and reverse polarity protection
- 0 to 15V/DC/ 0 to 3A
- 45W maximum output
- Linearly-regulated
- Automatic switching between constant voltage and constant current operation
- Manufacturer's part: **Basetech BT-153**

Type	Order code	1+
Single Output PSU	64-6084	58.77

561347

Rapid

Dual Rail 100mA Regulated Power Supply

A rugged power supply offering dual rail voltage output with twice the current output usually available in units of this type.



- Output is 15-0-15V at 100mA per rail.
- The unit is designed for powering operational amplifiers
- Features short circuit protection and output status monitoring via tricolour LEDs
- Output is via colour coded 4mm terminals
- The supply is enclosed in a sturdy fully earthed steel case
- Supplied complete with mains lead and comprehensive instruction manual
- Ideal for laboratory and educational use
- Dimensions 120 x 110 x 150mm

Type	Order code	1+
15V 100mA Supply	85-1720	49.99

065044

Rapid

6A AC/DC Power Supply

This addition to our range offers AC voltages of 2, 4, 6, 8, 10 or 12V and capacitor smoothed (10,000µF), DC voltages of 1, 4, 7, 10, 13 or 15V.



- Separate AC and DC colour coded terminals are provided
- AC and DC voltages may be used simultaneously up to a maximum combined load of 6 amps
- An earth terminal is also provided should rail clamping be required
- Voltages are selected by a six position keyswitch - the key is removable in any position
- Keys are of a common profile so that one key will switch any unit
- The output voltage is monitored by a sophisticated system which detects overloads, short circuits and cuts power to the terminals under these conditions
- Tripping is indicated by a buzzer sounding and the output monitor LED turning from green to red, thereby allowing the teacher to locate the tripped unit from across the room
- Reset is achieved by switching off the mains switch for 5 seconds
- Unit comes housed in a rugged steel case with carrying handle and is stackable
- Mains input is via a rear panel mounted, fused IEC connector and a detachable IEC lead with moulded mains plug

Type	Order code	1+	5+	10+
6A AC/DC Supply	85-1740	156.24	145.83	136.71

065048

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
- Voltage and current 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, again by a single control
- The 30V output is terminated with 4mm colour coded terminals
- The 5V and 12V outputs are terminated via a spring loaded colour coded terminal block
- All outputs are overload and short circuit protected
- The power supply is housed in a sturdy steel enclosure and is supplied with mains lead terminated with a UK mains plug fused at 5A and user instructions

Type	Order code	1+
30V 2.5A Reg. PSU	85-1705	96.08

065049

Rapid

3A Switched Output Switch Mode Power Supply

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
- Output is floated ground (isolated from the mains earth)
- Offers excellent performance and reliability at a low-cost
- Overload and short circuit protection
- Ideal for a wide range of applications, and is especially suited for the educational environment
- Output is via 4mm socket/screw terminals
- Supplied with two sets of leads - one set with crocodile clips and bare ends the other with 4mm plugs and 4-way power plug adaptor
- CE approved to **EN60950, EN55011**

Type	Order code	1+	5+	10+	50+
3A Switched o/p PSU	85-1820	36.00	33.27	31.21	29.19

065050

Rapid

0-30V 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, galvanised steel case
- Polycarbonate front panel
- Screw on connector for variable output, snap on connectors for fixed outputs
- Approved to **CE, EN60065, EN55014**

Type	Rating	Order code	1+
Triple o/p PSU	2.5A	85-1707	77.23

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

Type	Order code	1+
Voltcraft PS-1152A	51-1823	43.62

VOLTCRAFT®

PS-1302 D, 60W Single Output Variable DC Power Supply, Linear, Bench

The PS-1302 D from Voltcraft is a basic single output bench power supply that is particularly suitable for education and hobby purposes. This linear regulated PSU offers adjustable voltage 0V to 30V and current limit 0A to 2A. Set values are displayed on the PSUs LCD display.



- Overheating protection
- Short circuit protection
- Adjustable current limiting
- Outputs: 1
- Max power: 60W
- Voltage setting range: 0V to 30V DC
- Current setting range: 0A to 2A
- Convection cooled, rear heatsink, no fans
- PSU Technology: Linear

Please order the appropriate power cable under order code **23-6446** or **35-4485**.

DC bench power supply - User manual - Power cable not included, please order separately.



...where price meets quality

Technical specification

Calibration possible to	ISO/ DKG
Connections	4 mm safety sockets
Dimensions	207(W) x 105(H) x 215(D)mm
Input voltage range	230V AC
Inputs	IEC 320 C14
Number of outputs	1
Output current 1	0A to 2A
Output voltage 1	0V to 30V DC
PSU type	Linear
Power	60W
Specification	Bench
Type (manufacturer type)	PS-1302 D
Weight	3.2kg

Type	Order code	1+
Voltcraft PS-1302 D	51-1824	92.82



Science Powerbase V8 Bench Power Supply Unit (PSU)

The **Irwin Powerbase V8** is a **Bench Power Supply Unit (PSU)**, and an updated version of the Irwin Powerbase 32. Essentially, it is the same as the 32 but has a higher power rotary transformer and a high specification toroid transformer replaces the original chassis transformer.



The unit supplies 0 to 20V smoothed DC and 0 to 16V AC at 8A. The output is continuously variable and protected by a panel mounted thermal cut out. An output limiter is fitted which allows the user to preset the maximum voltage available.

The **Powerbase V8** is the ideal choice for schools, colleges, laboratories and universities.

- Direct replacement for the Popular Powerbase 32
- 0 to 20V DC and 0-16V AC continuously variable PSU
- Output current: 8A
- Voltage: Lockable via an Allen Key
- Colour coded 4mm sockets
- Earth socket
- Maximum voltage limiter
- Push-button cut-out
- Smoothed DC output
- Resettable Thermal Trip Switch Protection
- Supplied in **blue**
- Manufacturer's part: **Irwin Powerbase V8 B**

Type	Order code	1+
Powerbase V8	85-1717	204.70

Tektronix®

32V Bench Power Supply

The **PWS2326** is a **32V Bench Power Supply** designed with the performance and intuitive operation you expect from **Tektronix**. The **PWS2326** has wide current and voltage ranges, plus 10mV and 10mA resolution, to satisfy a wide variety of applications. Low-noise linear regulation and 0.05% voltage accuracy provide the clean, accurate power you need at a price you can afford.



The numeric keypad makes it easy to specify a precise current limit before you start your test. You can also specify a maximum output voltage, which will prevent accidental voltage settings above the specified maximum. A user-definable password allows you to lock the front panel to prevent unwanted adjustments during critical tests.

The bright vacuum fluorescent display with large digits provides excellent readability at a distance, at an angle, or under dim lighting conditions.

You can save your instrument settings in one of the 20 internal memory locations by simply pressing the Save

button. Each time you want to recall that setting, just push the Recall button and choose the desired preset.

- Wide range of power output up to 32V/6A/192W
- Linear Regulation
- Up to 72V Output Voltage
- 0.05% Basic Voltage Accuracy
- 0.2% Basic Current Accuracy
- 10mV/ 10mA Programming Resolution
- Less than 3mVp-p Ripple and Noise
- Store frequently used configurations in any of 20 setup memory locations
- Direct parameter entry using numeric keypad
- Bright display at a distance, at an angle or under dim lighting conditions
- Manufacturer's part: **Tektronix PWS2326**

For technical specification visit www.rapidonline.com.

Type	Order code	1+
Bench power supply	63-0757	434.00

Tektronix®

DC Bench Power Supplies PWS2000 Series

A range **Tektronix DC Bench Power Supplies** from the **PWS2000 Series**. These Power supplies have a wide current and voltage



range, plus 10mA and 10mV resolution. They also have a low noise linear regulation and 0.05% voltage accuracy, providing the clean, accurate power you need at a price you can afford.

The numeric keypad makes it easy to specify a precise current limit before you start your test. You can also specify a maximum output voltage, which will prevent accidental voltage settings above the specified maximum. The user definable password allows you to lock the front panel to prevent unwanted adjustments during critical tests.

The bright **Vacuum Fluorescent Display (VFD)** with large digits provides excellent readability at a distance, at an angle, or under dim lighting conditions. You can save your instrument settings in one of the 20 internal memory locations by simply pressing the Save button. Each time you want to recall that setting, just push the Recall button and choose the desired preset.

The **PWS2000 Power Supply Series** is designed with the ease-of-use and familiar operation you expect from Tektronix, and will satisfy a wide variety of applications.

- Linear regulation
- Up to 72V Output voltage
- 0.05% Basic Voltage accuracy
- 0.2% Basic Current accuracy
- 10 mV/10mA Programming resolution
- Less than 3mVp-p ripple and noise
- Bright Display
- 20 User-defined setup memories
- Direct parameter entry using numeric keypad
- Vary voltage or current in user-selectable steps
- Available with a **voltage rating of 18, 32 and 72V**
- Available with a **current rating of 1.5, 3, 5 and 6A**
- Available models: **Tektronix PWS2185, PWS2323, PWS2326 and PWS2721**

For technical specification visit www.rapidonline.com.

Type	Order code	1+
PWS2185 18V/5A	63-5926	360.00
PWS2323 32V/3A	63-5927	360.00
PWS2721 72V/1.5A	63-5928	346.37

Need a product urgently?

We can offer a next day, before noon, delivery service
01206 751166

Plug-in Power Supplies

PowerPax UK

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 protection
• CE marked and safety approved



Table with columns: Voltage, Current, Order code, 1+, 10+, 25+. Rows include 5V DC, 6V DC, 9V DC, 12V DC, 15V DC, 24V DC.

PowerPax UK

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: ±5%
Leakage current: <0.25mA
Operating temperature: 0°C to +40°C @ 20 to 80% RH
Storage temperature: -20°C to +60°C @ 10 to 90% RH
Dimensions: 52(L) x 29(W) x 89(H)mm
Weight: 108g

Table with columns: Output voltage, Output current, Power, Order code. Rows include 3.3V DC, 5.0V DC, 7.5V DC, 12V DC, 12V DC, 15V DC.

Table with columns: Voltage, Current, Order code, 1+, 10+, 25+, 100+. Rows include 3.3V, 5.0V, 7.5V, 12V, 12V, 15V.

stadium STONTRONICS

Plugtop SMPSUs

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

Table with columns: Power and plugstyle, Order code, 1+, 10+. Rows include 5V, 12.5W, UK; 9V, 18W, UK; 12V, 18W, UK; 12V, 18W, Euro.

PowerPax 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



Table with columns: Type, Order code, 1+, 10+, 25+. Row: Mini regulated PSU, 85-1683.

IP IDEALPOWER experts in power conversion

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 CE V / ErP 2.0 Efficiency Regulations, with a typical efficiency of more than 73%.

- CE 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

Table with columns: Type, Order code, 1+, 3+, 10+. Rows include 6V, 1.0A, PSU; USA Plug.

PowerPax UK

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

Table with columns: Case colour, Order code, 1+, 10+, 25+. Rows include Black, White.

stadium STONTRONICS

Level VI UK Plugtop Switched Mode Power Supply Units

A range of switched mode plugtop power supplies from Stontronics. The power supplies have a standard UK 13A or Euro-style plug and a standard 5.5 x 2.1mm centre positive output connector.

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



Table with columns: Voltage, Max. current, Order code, 1+, 10+, 25+. Row: UK plug.

Table with columns: Voltage, Max. current, Order code, 1+, 10+, 25+. Rows include 5V DC, 12V DC, 12V DC, 15V DC, 18V DC, 24V DC.

Table with columns: Voltage, Max. current, Order code, 1+, 10+, 25+. Row: Euro plug.

IP IDEALPOWER experts in power conversion

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

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

Table with columns: Type, Order code, 1+, 10+, 100+. Rows include 5V 1.2A USB, 5V 1.2A, 5V 2.4A, 5V 3.5A, 7.5V 3.2A, 9V 1.6A, 12V 0.5A, 12V 1A, 12V 1.5A, 15V 1.2A, 24V 0.75A.

Rapid ...where price meets quality