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CALRAD

45 series - miniature audio & shielded power transformers

MINI TRANSISTOR AUDIO TRANSFORMERS

Ideally suited and selected for building or replacement of transistorized equipment. High vacuum impregnation, application of a special coating seals the coils. A special core of hydrogen heat-treated alloy is used. Size ¾" x ⅝" x ⅝". Specify Cat. No.



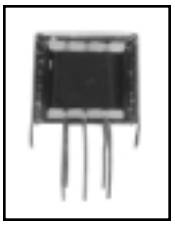
Cat. No.	Type	Primary Ohms	Primary DC Res.	Secondary Ohms	Secondary DC Res.
45-700	Input	100,000	2K	1000	70 Ω
45-701	Output	1200	60 Ω	3.2	.4Ω
45-703	Mike Input	200,000	2.26K	1000	43Ω
45-705	Input	20,000	320Ω	1000	230Ω
45-707	Driver	10,000	700Ω	2000 C.T.	127Ω
45-709	Output	500 C.T.	35Ω	3.2	.27Ω
45-711	Output	1000 C.T.	53.1Ω	8	.57Ω
45-715	Input	500Ω	34Ω	50 KΩ	3.17KΩ

Same as above except sub-miniature, type. Size ½" x ½" x ½". Specify Cat. No.

45-702	Input	100,000	1K	1000	110Ω
45-704	Output	500 C.T.	35.5Ω	3.2	.4Ω
45-706	Input	200,000	1.6K	1000	118Ω
45-708	Driver	10,000	736Ω	2000 C.T.	173Ω
45-710	Output	500 C.T.	32Ω	8	2Ω

MINI TRANSISTOR AUDIO TRANSFORMERS FOR PRINTED CIRCUIT BOARD MOUNTING

Ideally suited and selected for building or replacement of transistorized equipment. High vacuum impregnation and application of a special coating seals the coils. A special core of hydrogen heat treated alloy is used to give high quality at a low cost. Dimensions ¾" x ⅝" x ⅝".



Cat. No.	Type	Primary Ohms	Primary DC Res.	Secondary Ohms	Secondary DC Res.
45-712	Driver	10,000	400Ω	2000 C.T.	100Ω
45-713	Output	500 C.T.	30Ω	3.2	.4Ω
45-714	Output	1000 C.T.	45Ω	8	.4Ω

45-698 TRANSFORMER

600Ω–600Ω Isolation Transformer–**Wire Leads.**
Primary DC Resistance – 47 Ω. Secondary DC Resistance – 60 Ω.
Frequency Response of 200-15KHz. Size: 1/2" x 1/2" x 1/2"

45-699 TRANSFORMER

600Ω–600Ω Isolation Transformer–**P.C. Leads.**
Primary DC Resistance – 47 Ω. Secondary DC Resistance – 60 Ω
Frequency Response of 200-15KHz. Size: 1/2" x 1/2" x 1/2"


45-699


45-698

SHIELDED MINIATURE FILAMENT TRANSFORMERS

Primary 117Vac. Mounting centers 2⅝". Size 1 15/16" x 1⅝" x 1⅝". With wire leads.



45-716 ..... 6 volt, 400 mA center tap
45-717 ..... 12 volt, 350 mA center tap
45-718 ..... 24 volt, 250 mA center tap

45 series - AC power + 25-70v line matching transformers

45-728 6-VOLT FILAMENT TRANSFORMER
Primary 117 volts AC, secondary 6.3 volts C.T. 1.5 amps. Mounting centers 2⅜". Size 2" x 1⅝" x 1⅝" high. With wire leads. Weight is 12.8 oz.

45-729 12-VOLT SHIELDED FILAMENT TRANSFORMER
Primary 117 volts AC, secondary 12.6 volts C.T. 1 Amp. Mounting centers 2⅝". Size 2³⁄₁₆" x 2⅛" x 1⅞" high. With wire leads.

45-730 24-VOLT SHIELDED TRANSFORMER
Primary 117 volts AC, secondary 24 volts C.T. 1 Amp. Mounting centers 2¹⁵⁄₁₆". Size 2⁵⁄₁₆" x 2⅛" x 2⁵⁄₁₆" high. With wire leads. Weight is 1 lb. 1.3 oz.



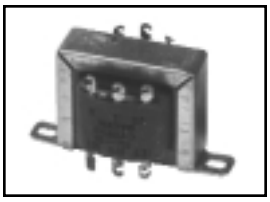
45-728, 729, & 730

45-731 MULTI-TAPPED TRANSFORMER
Primary 117 volts AC, secondary 24 volts multi-tapped at 6-9-12 volts. 1 Amp. All secondary voltages are DC values after full wave rectified by silicon diodes and filtered. Many combinations of secondary voltages can be obtained from this transformer. Mounting centers 2⅞". Size 2½" x 2" x 2" high. Weight is 12.8 oz.



45-720 or 45-720L (5-25V) 45-722 or 45-722L (10-25V) 5 AND 10 WATT, 25 VOLT MATCHING LINE TRANSFORMERS
(SPECIFY WITH OR WITHOUT LEADS)
Universal 25 volt 5 & 10 watt audio line transformers for chassis or speaker mounting. Can be connected to an audio amplifier to enable proper line and speaker impedance. Matches 4 to 8 ohm speakers. Taps of 0.312, 0.625, 1.25, 2.5, 5 watts for the 45-720. Taps of 0.625, 1.25, 2.5, 5, 10 watts for the 45-722. Weight for 45-720 is 6.5 oz. Weight for 45-722 is 10.4 oz.

45-721 or 45-721L (5-70V) 45-723 or 45-723L (10-70V) 5 AND 10 WATT, 70 VOLT MATCHING LINE TRANSFORMERS
(SPECIFY WITH OR WITHOUT LEADS)
Universal 70 volt 5 & 10 watt audio line transformer for chassis or speaker mounting, can be connected to an audio amplifier to enable proper line and speaker impedance. Matches 4 to 8 ohm speakers. Taps of 0.31, 0.62, 1.25, 2.5, 5 watts for the 45-721. Taps of 0.625, 1.25, 2.5, 5, 10 watts for the 45-723. Weight is 9.6 oz.



45-720, 721, 722, 723, 726, & 727 Without leads.

45-726 or 45-726L 10 WATT, 25 VOLT, 70 VOLT COMBINATION LINE TRANSFORMER
(SPECIFY WITH OR WITHOUT LEADS)
Taps of .65, 5, 10 watts at 25 volt. Taps of 0.25, 1.25, 5 watts at 70 volt. Weight is 10.5 oz.

45-727 or 45-727L 30 WATT MATCHING LINE TRANSFORMER
(SPECIFY WITH OR WITHOUT LEADS)
Taps of 10, 20, 30 watts at 25 volt. Taps of 10, 20, 30 watts at 70 volt. Weight is 10.2 oz.



45-720L, 721L, 722L, 723L, 726L, & 727L With leads.

45-788 50 WATT, HI-POWER MATCHING TRANSFORMER
45-789 100 WATT, HI-POWER MATCHING TRANSFORMER
These hi-power matching transformers are used to convert 8 ohm, low impedance to 70 volt line high impedance. It is applicable for all types of multi-speaker installations. Two are required for stereo applications. Weight for 45-788 is 1 lb. 14.3 oz. Weight for 45-789 is 4 lbs. 4.6 oz.

Specifications for 45-788 and 45-789:

Primary Tap	Common, (From Main Amplifier - 8 ohms)
Efficiency	85% min.
Secondary Tap 45-788	Common, 70 V (100 ohms), 50 watts
Base 45-788	2 9⁄16" x 2 5⁄16"
Height 45-788	2 3⁄16"
Frequency Response (-2dB)	30-20,000 Hz
Terminal	Solder-type
Secondary Tap 45-789	Common, 70 V (50 ohms), 100 watts
Base 45-789	3 3⁄4" x 2 3⁄4"
Height 45-789	3 1⁄8"



45-788 & 789

45 series - AC-DC adapter information

Regulated Versus Un-regulated DC power supplies

Regulated power supplies provide a cleaner power source and provide more protection to the devices it's connected to. Regulated power supplies are not always the best or most economical way to go, some devices or products have their own regulators and protection circuits built-in, in this case a regulated power supply would not be necessary and the un-regulated power supply would be the best choice. Always check with the manufacturer of a product or look at the adapter that your replacing and make the correct selection. Most specifications are listed on the adapter.

Regulated power supplies will maintain a near constant voltage over the load range of the power supply and will provide a cleaner DC output with less AC ripple. Regulated power supplies also offer short circuit and current foldback protections. You can always use a regulated power supply in place of a non-regulated power supply as long as the voltage and current specifications match. *Example: 12Vdc at 1 amp power supply will maintain a near constant voltage from a 100ma load to a 1 amp load. If more than 1 amp of current is exceeded the power supply will shutdown and go into current foldback.*

An un-regulated power supply will usually provide a higher output voltage than is listed and the current load against the power supply will cause this voltage to move up or down depending on the load. the DC output signal will contain much higher levels of AC ripple on the output. Never use a un-regulated power supply in place of a regulated power supply, damage to the device connected may result. *Example: A 12Vdc power supply with no load would read about 14-15Vdc as you load the power supply down to near 1 amp the voltage would be around 10-12Vdc./ if you exceed the 1 amp the power supply would continue to operate but the voltage would continue to drop until the power supply gets to hot and fails.*

Important AC adapter information

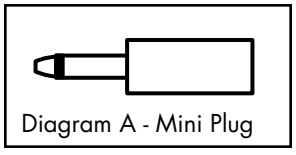
Voltage: The voltage of the portable device and adapter must match. Some adapters have a DC output, and others have an AC output. Be sure you use the correct type of adapter, or damage will result.

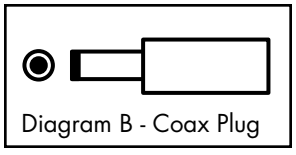
Current: Current of the adapter must be equal or more than the current required by the portable device 1000ma =1 amp.

Plug Type: The plug on the adapter must fit the jack on the portable device for proper operation. There are many different sizes available, common sizes are 2.5mm, 3.5mm O.D. plugs and look like the connector in diagram A. 1.8mm, 2.1mm, 2.5mm O.D. coax plugs look like the connector in diagram B.

Polarity: the positive and negative (+, -) must match the polarity of the portable device. Most DC input must have symbols nearby that look like the one pin diagrams C and D. Diagram C means that the outside of the jack is positive (+) and the inside is negative (-). Diagram D means the reverse.

The adapter's plug must match the portable device's DC input jack or damage may result to the AC adapter or portable device. The positive terminal on the adapter's plug must connect to the positive and the negative terminal on the adapter's plug must connect to the negative.


Diagram A - Mini Plug


Diagram B - Coax Plug

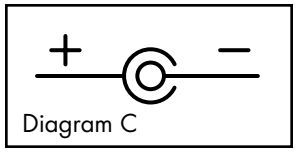


Diagram C

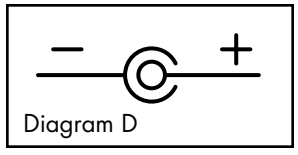


Diagram D

AC adapter plug changes

Custom molded plugs are available for power supplies of 100 pcs. or more, we can hand solder plugs on small quantities from 1 to 50 pcs. Please check with your Calrad sales representative for details.

CALRAD

45 series - AC adapters

Technical drawings and specifications are available for these power supplies. Please ask your Calrad sales representative for details.

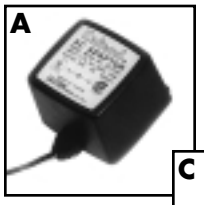
All DC adapters with coax power plugs are wired positive center unless specified otherwise.
All DC adapters with 3.5mm power plugs are wired tip positive unless specified otherwise.

AC TO DC ADAPTERS

45-754 multi plugs, 6 ft. cord, UL & CSA app .....Style C.....Input 117 Vac, Output 3,4.5,6,7.5,9,12 Vdc, 800 mA
45-756 3.5 mm plug, 7 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 6 Vdc, 300 mA
45-757 3.5 mm plug, 7 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 9 Vdc, 300 mA
45-757-2.1 2.1 mm plug, UL & CSA approved .....Style A .....Input 117 Vac, 60 Hz, Output 9 Vdc, 300 mA
45-757-2.5 2.5 mm plug, UL & CSA approved .....Style A .....Input 117 Vac, 60 Hz, Output 9 Vdc, 300 mA
45-765 3.5 mm plug, 6 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 9 Vdc, 500 mA
45-766 3.5 mm plug, 6 ft. cord, UL & CSA approved .....Style A.....Input 117 Vac, 60 Hz, Output 9 Vdc, 1.0 Amp
45-750 2.1mm coax plug, 6 ft. cord, UL & CSA app .....Style A .....Input 117 Vac, Output 12 Vdc, 200 mA
45-746 3.5 mm plug, 6 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 12 Vdc, 300 mA
45-761 3.5 mm plug, 6 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 12 Vdc, 500 mA
45-761-2.1 2.1 mm plug, UL & CSA approved .....Style A .....Input 117 Vac, 60 Hz, Output 12 Vdc, 500 mA
45-763 3.5 mm plug, 6 ft. cord, UL & CSA approved. .....Style A .....Input 117 Vac, 60 Hz, Output 12 Vdc, 800 mA
45-763-2.5 2.5mm coax plug, 6 ft. cord,UL & CSA app .....Style A .....Input 117 Vac, 60 Hz, Output 12 Vdc, 800 mA
45-751 2.1mm coax plug, 6 ft. cord, UL & CSA app .....Style A.....Input 117 Vac, Output 12 Vdc, 1.2 amp
45-772 3.5 mm plug, 6 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 18 Vdc, 200 mA
45-773 2.1mm coax plug, 6 ft. cord, UL & CSA app .....Style A .....Input 117 Vac, Output 18 Vdc, 500 mA
45-767 3.5 mm plug, 6 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 24 Vdc, 400 mA
45-767-2.1 2.1 mm plug, 6 ft. cord, UL & CSA approved.....Style A .....Input 117 Vac, 60 Hz, Output 24 Vdc, 400 mA
45-762 2.1mm plug, 6 ft. cord, UL & CSA app .....Style A .....Input 120 Vac, Output 24 Vdc, 600 mA

Above power supplies available plugs. Ask your Calrad sales representative for details.

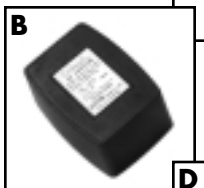
Style
A



Style
C



Style
B



Style
D



AC TO AC ADAPTERS

45-776 2.1mm coax plug, 6 ft. cord, UL & CSA approved .Style A.....Input 117 Vac, Output 9 Vac, 1 Amp
45-768 3.5mm or 2.5mm coax plug, 6 ft. cord, UL & CSA app...Style A .....Input 117 Vac, Output 12 Vac, 830 mA
45-768-2.5 2.5mm coax plug, 6 ft. cord, UL & CSA app.....Style A .....Input 117 Vac, Output 12 Vac, 830 mA
45-775 screw terminals, UL approved.....Style B.....Input 117 Vac, Output 12 Vac, 3.3 Amp
45-760 screw terminals, UL approved.....Style D .....Input 117 Vac, Output 16 Vac, 700 mA
45-764 2.1mm coax plug, 6 ft. cord, UL & CSA app .....Style A.....Input 117 Vac, Output 16 Vac, 1.1 Amp
45-777 screw terminals, UL approved.....Style B.....Input 117 Vac, Output 16 Vac, 2.5 Amp
45-774 screw terminals, UL approved.....Style B.....Input 117 Vac, Output 24Vac, 1.6 Amp

Case style may vary on AC adapters.

45-769 11.5 VOLT DC, 1.95 AMP DESK TOP POWER SUPPLY

For use with personal computers, TV games, printers, communications, etc. Input 117 Vac (60 Hz). **UL and CSA approved.** AC cord is 5 ft. and DC cord is 6ft.

Specifications
Dimensions ..... 2¾" W x 3⅜" H x 2⅝" D
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-771 24 VAC, 1.2 AMP ADAPTER–WALL MOUNT

Plugs directly into standard 117 Vac wall outlet, solid state automatic cutoff for short circuit or overload protection. Built-in extra large heat sink. Includes 6 ft. cord with 2.1 mm x 5.5 mm coax plug. UL approved.

Specifications
Dimensions ..... 2¾" W x 3½" H x 2¼" D
Color..... Black



45-753 AC ADAPTER

Multi-voltage (6) 500 mA. output.117 Vac. input. 3V, 4.5V, 6V, 7.5V, 9V, 12V. DC. Polarity switchable with universal plug. UL & CSA approved. 6ft. cord length.

Specifications
Dimensions..... 2.1"W x 3.05" H x 2.05"D
Color..... Black



45-752 12 VOLT DC REGULATED 1.2 AMP ADAPTER–WALL MOUNT

Plugs directly into standard 117 Vac wall outlet, solid state, IC regulated. 6 ft. cord with 2.1 x 5.5mm coax plug, UL approved.

Specifications
Dimensions ..... 3⅛" W x 4¾" H x 2⅜" D
Color..... Black



CALRAD

45 series - ac adapters & power supplies

Technical drawings and specifications are available for these power supplies. Please ask your Calrad sales representative for details.

45-752A 12Vdc ADAPTER-WALL MOUNT

Plugs directly into standard 117Vac wall outlet. Non-UL approved version of 45-752. Comes with screw terminals. 12Vdc, 1.2 amp (A) regulated.

Specifications

Dimensions..... 2⅝" W x 3¾" H x 2¼" D
Color..... Black



45-605 5Vdc, 2.8A REGULATED SWITCH MODE POWER SUPPLY

NEW Item

Input voltage 110Vac to 220Vad. Output 5Vdc regulated at 2.8 amps. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions..... 2.05"W x 1.35" H x 1.35"L
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-600 12Vdc, 1.2A REGULATED SWITCH MODE POWER SUPPLY

NEW Item

Input voltage 110Vac. Outputs 12Vdc regulated at 1.2 amps. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions..... 2.05"W x 1.35" H x 1.35"L
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-601 12Vdc, 1.5A REGULATED SWITCH MODE POWER SUPPLY

NEW Item

Operates from 110Vac to 220Vac automatically switches for each voltage. Output 12Vdc regulated at 1.5 amps. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions..... 2.05"W x 1.35" H x 1.35"L
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-602 12Vdc, 2.5A REGULATED SWITCH MODE POWER SUPPLY

NEW Item

Operates from 110Vac to 220Vac automatically switches for each voltage. Output 12Vdc regulated at 2.5 amps. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions..... 2.93"W x 1.25"H x 5.1"L
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-603 12Vdc, 4.1A REGULATED SWITCH MODE POWER SUPPLY

NEW Item

Operates from 110Vac to 220Vac automatically switches for each voltage. Output 12Vdc regulated at 4.1 amps. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions..... 2.93"W x 1.25"H x 5.1"L
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-610 24Vdc, 750ma REGULATED SWITCH MODE POWER SUPPLY

NEW Item

Operates from 110Vac to 220Vac automatically switches for each voltage. Output 24Vdc regulated at 750 ma. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions..... 2.05"W x 1.58"H x 3.15"L
Power Plug..... 2.1 mm coax (positive center)
Color..... Black



45-755 UNIVERSAL SWITCHING ADAPTER REGUALTED DC POWER SUPPLY

NEW Item

Switching regulator circuit. Light weight design. Adjustable slide switch voltage selector with 3, 4.5, 6, 7.5, 9, and 12Vdc. Over/under voltage protection. Short circuit protection. Input voltage of 100-120Vac. Output current 1A. 6" cable length. Color: black. Plug sizes: 2.35x0.7mm mini, 3.5x1.35mm coax, 4x1.75mm coax, 4.74x1.75mm coax, 3.5mm male, 5.5x2.1mm coax, and 5.5x2.1mm coax.



UL LISTED UN-REGULATED MINIATURE POWER ADAPTERS

45-650-3, -4.5, -6, -7.5, -9, -12, -15, -18, -24

NEW Item

The mini adapter is available in output voltages from 3Vdc to 24Vdc, 117Vac in. These power supplies offer high efficiency and are very small for the amount of output current. Short circuit/over voltage protection. 6' cord with 2.1mm coax plugs, positive center. Other plug types and configurations available, ask your Calrad representative for details. Weight 36 grams. Size: .88"d x 1.8"H x 1.3"W.



45-650-3	3Vdc.....	.6A
45-650-4.5	4.5Vdc.....	.8A
45-650-6	6Vdc.....	1A
45-650-7.5	7.5Vdc.....	1.2A
45-650-9	9Vdc.....	1.2A
45-650-12	12Vdc.....	1.2A
45-650-15	15Vdc.....	1.2A
45-650-18	18Vdc.....	1A
45-650-24	24Vdc.....	.8A

MINIATURE ADAPTERS FEATURING NEW SOLID STATE TECHNOLOGY!

45 series - power supplies, power cords, & rechargable battery pack

NEW Item

45-611 24Vdc, 1.2A REGULATED SWITCH MODE POWER SUPPLY

Operates from 110Vac to 220Vac automatically. Output 24Vdc regulated at 1.2 amps. 6' cord. Short circuit/over, voltage protection.

Specifications

Dimensions ..... 2.93"W x 1.25"H x 5.1"L
Power Plug ..... 2.1 mm coax (positive center)
Color ..... Black



45-748 MULTI-CAR DC TO DC CONVERTER

12 Vdc. input to 3V, 4.5V, 6V, 7.5V, 9V, 12V at 800 mA output. Polarity switchable with multi plugs. Regulated. Fuse protected at 2 amps. Cigarette lighter plug on 6" cable. Output cable is 5 ft. Color: black.



45-749 MULTI-CAR DC TO DC CONVERTER

12 Vdc. input to 3V, 4.5V, 6V, 7.5V, 9V, 12V at 2 amp output. Polarity switchable with multi plugs. Fuse protected at 2 amps. Cigarette lighter plug on 5 ft. cord. Output cable is 1 ft. Color: black.



45-820 LIGHTER PLUG

Fused lighter plug with 6 detachable plugs. 12 ft. coiled cord with multi plugs on the other end. Fuse protected at 2 amps.



45-821 LIGHTER PLUG

Fused lighter plug with LED indicator. 6 ft. cord with 2.1 coax plug on the other end. Fuse protected at 5 amps. With positive center.



NEW Item

45-824 UL APPROVED AC POWER CORD

Polarized AC power cord with square end connector for use with many portable audio and video equipment.



NEW Item

45-822 UL APPROVED AC POWER CORD

Polarized AC power cord with square end connector with two slots for use with many portable audio and video equipment.



55-781 3 PRONGED FEMALE TO AC ADAPTER

UL listed, IEC male plug to 3 prong grounded female inline plug. (6" long, black).



55-782-1 .....1 ft.
55-782-3 .....3 ft.
55-782-6 .....6 ft.
55-782-12.....12 ft.

3-Prong AC computer cable. Has AC plug on one end and computer plug on other end. (18 gauge, Black).



55-783 AC EXTENSION CABLE

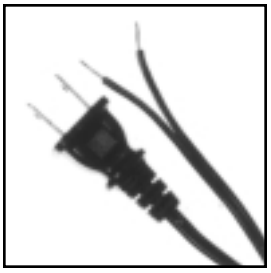
3-Prong AC computer extension cable. Has AC plug on one end and computer jack on other end. (18 gauge, 6 ft. long, Black).



For more 12Vdc cigarette ligher cables & plugs see pages 133-134

55-784 AC POWER CABLE

2-Prong, AC Replacement Cable Wire. (18 gauge, 6 ft. long). Heavy Insulation. Black in color.



NEW Item

55-785 RIGHT ANGLE POWER CABLE

Right angle 3-prong AC computer cable. Has AC plug on one end and right angle computer IEC plug. (18 gauge, 6 ft. long, black).



45-734 MULTI-VOLTAGE 2 AMP REGULATED POWER SUPPLY

Binding post on the output comes with a 6 ft. cord with six detachable plugs. Comes with ON/OFF switch.

Specifications

Size	3½" W x 3" H x 5½" D
Input	120 Vac, 60hz
Fuse	0.5 amp
Voltage Out	3, 4.5, 6, 7.5, 9, 115Vdc
Weight	3.4 lbs.



45-735A POWER SUPPLY 5 AMP SURGE/3 AMP CONTINUOUS DUTY

Converts 117 Vac, 60 Hz to 13.8 Vdc regulated. Automatic Short Circuit Protection. Fuse Protection. Current Limiting Protection. UL approved. 6 ft. AC cord.

Specifications

Size	4¾" W x 3¼" H x 8¼" D (Including Terminals)
Ripple	200mv ripple full load
Line Regulation	1.4%
Weight	6.2 lbs.



45-778 10 AMP REGULATED SWITCHING POWER SUPPLY

This state-of-the-art power supply gives increased power handling. This new technology gives increased power handling and efficiency at low heat dissipation. Built-in over load and over voltage protection. 6 ft. AC cord.

Specifications

Size	5.5" L x 6" W x 3.25" H	Ripple	75 mV at 80% load; Max output ripple 200 mV
Input	-105–128 Vac	Switching Frequency	Q, 35–40 kHz
Output	13.8 Vdc	Line Regulation Output	1%
Output Current	10A (surge 12A)	Operating Temperature	0°C through 50°C
Over Voltage	Short Circuit Protection	Weight	3.3 lbs.



45-732 0-30 vdc ADJUSTABLE, 5 amp REGULATED DIGITAL POWER SUPPLY

Adjustable power supply ideal for providing power to all types of analog and digital circuits. Easy to read digital LCD voltage and current meters. Course and Fine controls for accurate adjustments. Red LED indicators show power and current foldback settings. Comes with binding posts for easy connect of cable or test probes and chassis mounted carrying handle.

Specifications

Input Voltage	110-220 Vac ± 10% 50-60 Hz Switchable	Volt Meter	LCD 1% +2 digits; meter 2.5 degree
Output Voltage	0-30 Vdc, Regulated	Amp Meter	LCD 2% +2 digits; meter 2.5 degree
Output Current	5 Amps	Weight	14 lbs.
Size	5" W x 6" H x 10½" D		



45-733 0-30 vdc ADJUSTABLE, 10 amp REGULATED DIGITAL POWER SUPPLY

Same specifications as 45-732 except for having an output current of 10 amps. UL or non UL.

Specifications

Input Voltage ..... 110-220 Vac ± 10% 50-60 Hz Switchable
Output Voltage ..... 0-30 Vdc, Regulated
Output Current ..... 10 Amps
Size ..... 6½" W x 10" H x 11½" D
Volt Meter ..... LCD 1% +2 digits; meter 2.5 degree
Amp Meter ..... LCD 2% +2 digits; meter 2.5 degree
Weight ..... 26 lbs.



45-736 BI-POLAR 0-30 vdc ADJUSTABLE/5 amp, 5 volt/3amp FIXED REGULATED DIGITAL POWER SUPPLY

Similar to the above meters, except for having two sets of course controls and two sets of binding posts. Front panel switched are provided for Single or Bipolar configurations.

Specifications

Input Voltage ..... 110-220 Vac ± 10% 50-60 Hz Switchable
Two single output adjustable voltage... 0-30 Vdc, Regulated
Output Current single ended ..... 5 Amps each
Size ..... 10" W x 6½" H x 14" D
Two Volt Meters ..... LCD 1% +2 digits; meter 2.5 degree
Two Amp Meter ..... LCD 2% +2 digits; meter 2.5 degree
Weight ..... 28 lbs.



45-742A 0-30Vdc 5 AMP REGULATED DIGITAL POWER SUPPLY

Both Amps and Volts are variable. Complete with ON/OFF switch. Uses 3 amp fuse and is short circuit protected.

Specifications

Load Regulation at 1% 20-30V
Load Regulation at 1.5% 10-20V
Load Regulation at 2% 0-10V
Weight ..... 13.4 lbs.
Voltage Regulation ..... 1% max, input
Output ..... 115-120V rated load
Current Limiter ..... Adjustable
Size ..... 9" W x 4½" H x 10½" D



45-744 LAB-TYPE DC VARIABLE POWER SUPPLY 0-30 Vdc

Lab-type, variable power supply with built-in current limiting and short circuit protection. Voltage and Current are adjustable from 0-30 Vdc, 0-5 Amps by separate controls on the front panel. Large full scale meters for accurate display of Voltage and Current.

Specifications

Input Voltage ..... 110-120 Vac
Output Voltage ..... 0-30 VDC, Adjustable
Output Current ..... 0-5 Amps, Adjustable
Line Regulation 0.01%
Weight ..... 11 lbs.
Size ..... 8½"W x 4½"H x 8¼"D

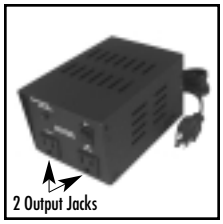


45-738 100 WATT ISOLATION TRANSFORMER

Isolation between different electrical circuits. Front panel On/Off switch. Power LED indicator. 6 ft. AC cord.

Specifications

Wattage ..... 100 watt
Size ..... 3⅞"W x 3½"H x 6¼"D
Weight ..... 7.5 lbs.

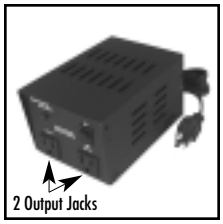


45-739 300 WATT ISOLATION TRANSFORMER

Isolation between different electrical circuits. Front panel On/Off switch. Power LED indicator. 6 ft. AC cord.

Specifications

Wattage ..... 300 watt
Size ..... 4¼"W x 3½"H x 6¼"D
Weight ..... 7.5 lbs.

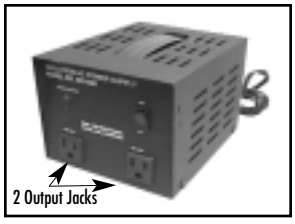


45-743 500 WATT ISOLATION TRANSFORMER

Isolation between different electrical circuits. Front panel On/Off switch. Power L.E.D. indicator. 6 ft. AC cord.

Specifications

Wattage ..... 500 watt
Input Voltage ..... 117 Vac with ON-OFF switch
Output Voltage ..... 117 Vac
Isolation ..... ± 5% 60 Hz
Protection ..... 5 amp fuse
Cord ..... 6 ft.
Size ..... 5½"W x 4½"H x 7½"D
Weight ..... 14 lbs.



CALRAD

45 series - variable transformers &DC-AC inverters

45-740 VARIABLE OUTPUT VOLTAGE REGULATOR

Adjustable output from AC line, 0 to 130 volts. Input 117 volts, 5 Amps. Current rating apply over full range of output voltage.

Specifications

Dimensions .....6½" diameter (Including Terminals)
5½" deep (Knob to Base)
Weight ..... 9.2 lbs.



45-741 VARIABLE OUTPUT VOLTAGE REGULATOR

5 amp isolated supply w/ volt meter. Fuse protected with On/Off switch and AC volt meter scale 0-150 Vac.

Specifications

Input Voltage ..... 110-120 Vac
Dimensions ..... 5"W x 6½"H x 6¾"D
Output Voltage..... 0-130 Vac, adjustable
Weight ..... 10 lbs.



45-805 12 Vdc to 110 Vac INVERTER 80/100 WATTS

Takes 12 Vdc and allows usage of 110 Vac equipment to be operated within the wattage specifications of the unit. Comes with male cigarette lighter plug and High/Low current switch. 2 terminal AC output jack.

Specifications

Input Voltage ..... 12Vdc, 50-60 AH (Amp Hours) Car Battery
Output Voltage ..... 120 Vac, 60hz Sq. Wave, Res. Load Only
Fuse Protected..... Push to reset circuit breaker, 2 amps
Size..... 5.5"W x 3.5"H x 6"D
Weight..... 7 lbs.



45-803 12 Vdc to 110 Vac INVERTER 140/300 WATTS

Unit converts 12 Vdc to 110 Vac and allows usage of 110 Vac equipment. A rocker type ON/OFF power switch is on the front panel. Front panel single 3 prong AC output jack. Comes complete with male cigarette lighter plug for easy hookup.

Specifications

Input Voltage..... 12-15Vdc
Output Voltage ..... 100-110Vac (+ - 10%)
Output Frequency..... 60Hz (+ - 1%)
Output Power..... 140 watts cont./300 watts peak
Output Waveform..... Modified Sinewave
Size ..... L 5", W 4-5/8", H 1-5/8"
Weight ..... 1 lbs.
Color..... Black



45-807 12Vdc to 110Vac INVERTER 300/500 WATTS

Unit converts 12 Vdc to 110 Vac and allows usage of 110 Vac equipment. A rocker type ON/OFF power switch is on the front panel. Front panel double 3 prong AC output jack. Comes complete with male cigarette lighter plug and battery interface adapter cable with large colored alligator clamps. Internal cooling fan for heat removal.

Specifications

Input Voltage..... 12-15Vdc
Output Voltage ..... 100-110Vac (+ - 10%)
Output Frequency..... 60Hz (+ - 1%)
Output Power..... 300 watts cont./500 watts peak
Output Waveform..... Modified Sinewave
Size ..... L 6-1/2", W 4-5/8", H 1-3/4"
Weight ..... 1.75 lbs.
Color..... Black



NEW Item

45-830 RECHARGABLE BATTERY PACK

This battery pack provides 12Vdc at 6.5Amh, comes complete with black leather carrying case, battery, and UL AC charger. A female cigarette lighter plug is supplied for connections to various 12V devices, fuse protected. UL/CSA approved.

Specifications

Battery type..... Lead acid 112V, 6.5Amh
Charger..... 117Vac in to 12Vdc, 500ma
Plug..... Male cigarette
Fuse protected..... 15A Agc

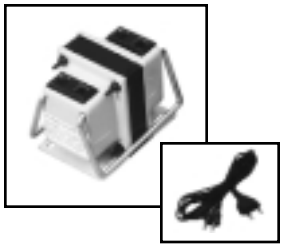


45 series - transformers & converters

PORTABLE STEP-DOWN TRANSFORMERS

Can be reversed for use as step-up transformers. No isolation from primary to secondary.

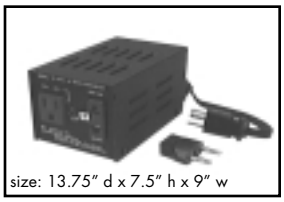
45-780 ..... 220 Vac - 110 Vac, 50 Watt
45-781 ..... 220 Vac - 110 Vac, 100 Watt
45-782 ..... 220 Vac - 110 Vac, 200 Watt
45-783 ..... 220 Vac - 110 Vac, 300 Watt
45-784 ..... 220 Vac - 110 Vac, 500 Watt
45-786 ..... 220 Vac - 110 Vac, 2000 Watt
with binding post for the input and output
45-787 ..... 220 Vac - 110 Vac, 3000 Watt
with binding post for the input and output
45-792 ..... 117 Vac or 100Vac, 500 watts
Cord in on 117 Vac side
45-793 ..... 117 Vac or 100 Vac, 950 watts
45-801 220 Vac - 110 Vac, 1300 watt
220-110 only cord in on 220 side
45-802 ..... 220 Vac - 110 Vac, 1500 watt
with grounded binding post for the input and output



PORTABLE STEP-DOWN TRANSFORMERS

Switchable - has both 220 & 110 sockets. Comes with grounded socket with an ON/OFF switch and a 5A, 5MM x 20MM fuse. Weight is 19 lbs.

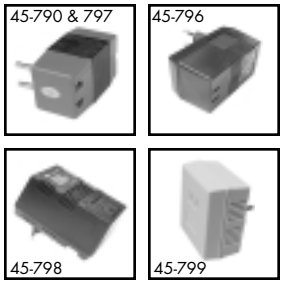
45-781A ..... 220 Vac - 110 Vac, 100 Watt
45-782A ..... 220 Vac - 110 Vac, 200 Watt
45-800 ..... 220 Vac - 110 Vac, 1000 watts
3 prong grounded both sides - 220-110 only
45-783A ..... 220 Vac - 110 Vac, 300 Watt
45-784A ..... 220 Vac - 110 Vac, 500 Watt
45-785A ..... 220 Vac - 110 Vac, 1000 Watt



PORTABLE TRAVEL TRANSFORMERS

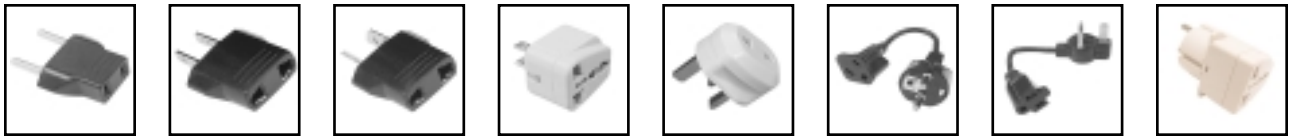
Travel transformers for use throughout the world, small and lightweight.

45-790 ..... in 117 Vac - 100 Vac, 100 watts
45-791 ..... in 100 Vac - 117 Vac, 60 watts
45-795 ..... in 220 Vac - 110 Vac, 50 watts
45-796 ..... in 110 Vac - 220 Vac, 50 watts
45-797 ..... in 220 Vac - 110 Vac, 55 watts
45-798 ..... in 220 Vac - 110 Vac, 85 watts
45-799 ..... in 220 Vac - 110 Vac, 1600 watts



AC PLUG ADAPTERS

Travel plug adapters for use throughout the world. Ask Calrad for a requirements chart for the countries.



45-810
220 VAC to 110 VAC AC polarized USA female Plug

45-811
110 VAC to 220 VAC AC Plug

45-812
Australia to polarized USA female and Europe.

45-813
USA to UK, 15 amp. Europe.

45-815
UK to USA or Europe.

45-816
German Plug to USA Jack, 9 1/2" overall. Grounded.

45-817
UK Plug to USA Jack, 7 1/2" overall. Grounded.

45-818
All countries input to 2 prong European output.

NEW Item

45-822 UL APPROVED AC POWER CORD
Polarized AC power cord with square end connector. For use with many protable audio and video equipment.



NEW Item

45-824 UL APPROVED AC POWER CORD
Polarized AC power cord with square end connector with two slots. For use with many protable audio and video equipment.



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