

# Power Supplies, Converters & Adapters



BK PRECISION CSI/SPECO philmore

EGS SOLAR HEVI-DUTY



## AC Adapter

- 38-305 500 MA, heavy duty model, blister packed
- 38-306 800 MA, included walkman type plug, boxed
- 38-312 1200 MA, heavy duty, multi-voltage, boxed
- 38-310 1 amp, heavy duty model, boxed



For converting 117 volts, AC home current to low voltage DC current to operate battery powered equipment (3v, 4.5v, 6v, 7.5v, 9v, 12v). With multi-plugs and 9 volt snaps.

## DC-DC Adapter

800 MA multi-voltage heavy duty automotive model. Includes walkman type plug. Allows user to tap power from auto lighter to operate portable equipment in the car. Complete with multi-plug and 9 volt snap (3v, 4.5v, 6v, 7.5v, 9v, 12v). Blister packed.



## Transformer - 24 Volt

Input: 110 VAC. Ouput: 20VA. Boxed



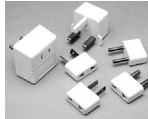
## Foreign Converter Transformer - Converts 240 VAC to 120 VAC.

- 37-355P Converts to operate electronic equipment up to 50 watts
- 37-3516P Converts to operate electrical appliances up to 1600 watts



## Foreign Travel Converter Kit

Kit/transformer 1600 watt converters 240 VAC to 120 VAC with 5 plug adaptors.



## Power Supplies

- 38-383 3 Amp Regulated Economy Model

Input voltage: 115 VAC. On/off switch. Output voltage: 13.8 VDC. Short circuit protection. Binding post. Five amp surge. Weight: 3<sup>1</sup>/<sub>2</sub> lbs. Dimensions: 7" x 3<sup>1</sup>/<sub>2</sub>" x 2<sup>3</sup>/<sub>4</sub>". Individually boxed.



- 38-384 4 Amp Regulated Light Duty Model

On/off switch. Binding posts. Five amp surge. LED on indicator. Output voltage: 13.8 VDC. Fuse protection. Input voltage: 115 VAC. Weight: 5<sup>1</sup>/<sub>2</sub> lbs. Dimensions: 7<sup>1</sup>/<sub>2</sub>" x 4<sup>3</sup>/<sub>4</sub>" x 3". Individually boxed.

- 38-386 6 Amp Regulated Heavy Duty Model

Lighted On/Off switch. Output voltage: 13.8 VDC. Fuse protection. Binding posts. Low ripple. Fully regulated. Weight: 7 lbs. Dimensions: 7<sup>1</sup>/<sub>4</sub>" x 6<sup>1</sup>/<sub>4</sub>" x 4". Individually boxed.

- 38-381 10 Amp Regulated Deluxe Heavy Duty Model

Lighted On/Off switch. Output voltage: 13.8 VDC. Fuse protection. Binding posts. Low ripple. Fully regulated. Weight: 9<sup>1</sup>/<sub>2</sub> lbs. Dimensions: 6<sup>3</sup>/<sub>4</sub>" x 6<sup>1</sup>/<sub>2</sub>" x 4<sup>1</sup>/<sub>2</sub>". Individually boxed.



## Power Supplies (cont.)

- 38-382 20 Amp Regulated Extra Heavy Duty Model

Lighted On/Off switch. Output voltage: 13.8 VDC. Fuse protection. Binding posts. Low ripple. Fully regulated. Weight: 16 lbs. Dimensions: 11<sup>1</sup>/<sub>4</sub>" x 7<sup>3</sup>/<sub>4</sub>" x 5". Individually boxed.

## Power Inverter

Single outlet. Input: DC 12v. Output: AC 115v 60Hz. Max: power 120 watts. Continuous 100 watts. Six foot cord included. Fused cigarette lighter plug. Built-in cooling fan. Heat sink casing. LED power indicator.



## BK PRECISION

## Single Output DC Power Supplies

Connect two supplies in parallel to double the current output. Connect two power supplies in series to double the voltage output. Fully overload protected. Coarse and fine voltage controls. Excellent regulation. Very low ripple. Constant voltage or constant current operation. Continuously monitor voltage and current output on two meters. Overload protection - current limiting, reverse polarity, overvoltage, short circuit. Power requirement - 120 VAC ±10%, 60 Hz only (120/220/230/240 VAC ±10%, 50/60 Hz version available). Operating temperature - 32° to 104°F (0° to 40°C), ≤75% R.H. Storage temperature - 5° to 158°F (-15° to +70°C), ≤85% R.H. Two year warranty.



Voltage regulation line (120VAC ±10%) - ≤0.01% + 3 mV. Voltage regulation load (no load - full load) - ≤0.01% + 3 mV. Recovery time - ≤100µs. Ripple and noise - ≤1mV rms. Temperature coefficient - ≤300 ppm/°C. Adjustable current range - 5% to 100%. Current regulation line (120VAC ±10%) - ≤0.2% + 3mA. Current regulation load - ≤0.2% + 3mA. Current ripple - ≤3mA rms. Dimensions (HxWxD) - 6.2 x 5.5 x 12.5".

Part. No.	Out. Volt.	Out. Curr.	Type	Metering		Ammeter Range		Ammeter Accuracy	Power Consum.
				Voltmeter Range	Voltmeter Accuracy	High Range	Low Accuracy		
1710	0-30V	0-1A	Analog	0-32V	± 2.5%	0-1.04 A	0-0.26 A	± 2.5%	70W
1711	0-60V	0-2A	Analog	0-64V	± 2.5%	0-2.2 A	0-0.55 A	± 2.5%	210W
1715	0-60V	0-2A	3-digit LED (green)	0-99.9V + 2 digits	±(0.5% rdg)	0-9.99 A (red)	-	±(0.5% rdg) + 2 digits	210W
1730	0-30V	0-3A	Analog	0-32V	± 2.5%	0-3.2 A	0-0.53 A	± 2.5%	180W
1735	0-30V	0-3A	3-digit LED (green)	0-99.9V + 2 digits	±(0.5% rdg)	0-9.99 A (red)	-	±(0.5% rdg) + 2 digits	180W

Voltage regulation line (120VAC ±10%) - ≤0.02% + 2 mV. Voltage regulation load (no load - full load) - ≤0.04% + 2mV. Recovery time - ≤100µs. Ripple and noise - ≤1mV rms. Temperature coefficient - ≤300 ppm/°C. Adjustable current range - 5% to 100%. Current regulation line (120VAC ±10%) - ≤0.4% + 5mA. Current regulation load - ≤0.4% + 5mA. Current ripple - ≤3mA rms. Dimensions (HxWxD) - 5.7 x 10.5 x 15" (145 x 267 x 381 mm).

Part. No.	Out. Volt.	Out. Curr.	Type	Metering		Ammeter Range		Ammeter Accuracy	Power Consum.
				Voltmeter Range	Voltmeter Accuracy	High Range	Low Accuracy		
1740	0-60V	0-4A	Analog	0-64V	± 2.5%	0-4.4 A	0-1.1 A	± 2.5%	450W
1743	0-35V	0-6A	3-digit LED (green)	0-99.9V + 2 digits	±(0.5% rdg)	0-9.99 A (red)	-	±(0.5% rdg) + 2 digits	420W
1746	0-16V	0-10A	Analog	0-16V	± 2.5%	0-11 A	0-2.2 A	± 2.5%	380W

# Power Supplies, Converters & Adapters

## BK PRECISION

### Compact Single Output DC Power Supplies

Connect two supplies in parallel to double the current output. Connect two supplies in series to double the voltage output. New compact style. Voltage regulation line (120VAC +10%, -6%) -  $\leq 0.02\% + 3$  mV. Voltage regulation load (no load - full load) -  $\leq 0.02\% + 3$  mV. Recovery time -  $\leq 500$ ms. Ripple and noise -  $\leq 0.5$ mV rms. Temperature coefficient -  $\leq 300$  ppm/ $^{\circ}$ C. Adjustable current range - 0-100%. Current regulation line (120VAC +10%, -6%) -  $\leq 0.02\% + 3$ mA. Current regulation load -  $\leq 0.02\% + 3$ mA. Current ripple -  $\leq 3$ mA. Dimensions (HxWxD) - 8.07 x 4.53 x 10.63". Overload protection - current limiting, reverse polarity, overvoltage, short circuit. Power requirements - 120 VAC  $\pm 10\%$ , 60 Hz (120/220/230/240 VAC  $\pm 10\%$ , 50/60 Hz version available). Operating temperature - 32 $^{\circ}$  to 104 $^{\circ}$ F (0 $^{\circ}$  to 40 $^{\circ}$ C),  $\leq 75\%$  R.H. Storage temperature - 5 $^{\circ}$  to 158 $^{\circ}$ F (-15 $^{\circ}$  to +70 $^{\circ}$ C),  $\leq 85\%$  R.H. One year warranty.



Part No.	Out. Volt.	Out. Curr.	Type	Metering		Ammeter Range	Ammeter Accuracy	Power Consum.
				Volt. Range	Voltmeter Range			
1620	0-18V	0-5A	Analog	0-18V	$\pm 7\%$ FS	0-5 A	$\pm 7$ FS	210W
1621	0-18V	0-5A	3-digit LED	0-18V	$\pm 0.2\% + 2$ digits	0-9.99 A	$\pm 0.2\% + 2$ digits	220W
1622	0-60V	0-1.5A	Analog	0-60V	$\pm 7\%$ FS	0-3A	$\pm 7\%$ FS	210W
1623	0-60V	0-1.5A	3-digit LED	0-60V	$\pm 0.2\% + 2$ digits	0-9.99 A	$\pm 0.2\% + 2$ digits	220W
1626	0-30V	0-3A	Analog	0-30V	$\pm 7\%$ FS	0-3 A	$\pm 7$ FS	210W
1627	0-30V	0-3A	3-digit LED	0-30V	$\pm 0.2\% + 2$ digits	0-9.99 A	$\pm 0.2\% + 2$ digits	220W

### Triple Outlet DC Power Supplies

1760

Two 0-30 VDC, 2 A sections capable of independent, series or parallel operation. One 4-6.5 VDC, 5 A section. Switchable series/parallel operation - 30 V sections. Adjustable current limit controls - 30 V sections. Two 3 digit LED displays - one reads volts or amps of "B" supply and one reads volts or amps of "A" supply or 4V-6.5V supply. Unique variable tracking, B track A at 5% to 100%. Two year warranty.



1651A

New compact design. Two 0 to 24 VDC outputs (0.5A). One fixed 5V output (4A). Independent or tracking operation. Adjustable current limiting. Designed to operate continuously at rated output. Short circuit, overvoltage and reverse polarity protection. Connect outputs in series for higher voltage output or in parallel for higher current output (switch selectable). One year warranty.

1670

One variable 0-30 VDC, 2.5 A section. One 12 VDC fixed section. One 5 VDC fixed section. Ideal for general electronic servicing, school electronics labels, and powering up hobbyists projects. One year warranty.

### Programmable DC Power Supplies

1785 DC Output voltage: 0-18V, current: 5A  
 1786 DC Output voltage: 0-30V, current: 3A  
 1787 DC output voltage: 0-60V, current 1.5A



Models offer a new level of "ease-of-use" and programmable functionality in a low-cost solution. Direct key-in entry makes voltage and current selection fast, accurate and easy. User programmed outputs allow the operator to preset 99 frequently used voltage and current settings into memory for easy recall. Preprogram a 10 step output routine via the keypad or PC interface for automated testing in preproduction, production or R&D environments. In-case calibration allows for simple, cost-savings, uninterrupted operation. Serial interface cable and software included. Two year warranty. Line regulation (120V  $\pm 10\%$ ) - 0.02% + 5mV. Load regulation - 0.02% + 5mV. Ripple and noise -  $< 1$  mV. Operating voltage - 110/120VAC, 60 Hz. Dimensions (WxHxD) - 8.1 x 4.5 x 10.6" (205 x 115 x 270 mm). Display - 3 digit LCD voltmeter and ammeter. Weight - approximately 11 lbs. (5 kg).

## BK PRECISION

### Variable Voltage DC Output

Variable voltage - 3 to 14 volts DC output. 20A guaranteed @ 13.8V (Model 1688). 12A guaranteed @ 13.8V (model 1686). Current limiting overload, over voltage, short circuit and reverse polarity protection. Thermostatically controlled cooling fan. Thermal protection. Operates continuously at full load without overheating. Connect two in parallel for more current. Connect two in series for higher voltage. One year warranty. Output current - proportional to output voltage. Line regulation - (108-132VAC)  $\leq 0.8\%$ . Ripple and noise -  $\leq 10$ mV rms. Voltmeter accuracy -  $\pm 7\%$  FS. Ammeter accuracy -  $\pm 7\%$  FS. Power requirement - 120/220 VAC  $\pm 10\%$ , 50/60 Hz. Operating temperature - 32 $^{\circ}$  to 104 $^{\circ}$ F (0 $^{\circ}$  to 40 $^{\circ}$ C),  $\leq 85\%$  R.H. Storage temperature - 5 $^{\circ}$  to 158 $^{\circ}$ F (-15 $^{\circ}$  to 70 $^{\circ}$ C),  $\leq 75\%$  R.H. Dimensions (HxWxD) - 5.5 x 5.9 x 12" (140 x 150 x 305 mm).



- 1686 DCV Output-Max DCA - 3V-2.5A, 5V-4.5A, 9V-7.5A, 12V-10A, 13.8V-12A, 14V-12A. Voltmeter range - 0-20V. Ammeter range - 0-20A. Power consumption - 400W. Weight - 12.1 lbs. (5.5 kg).
- 1688 DCV Output-Max DCA - 3V-4.5A, 5V-7.5A, 9V-13A, 12V-20A, 13.8V-20A, 14V-20A. Voltmeter range - 0-30V. Ammeter range - 0-30A. Power consumption - 580W. Weight - 19.8 lbs. (9 kg).

### GPIB Programmable Power Supplies

1770

DC Output Max Ratings: Voltage - 0-17.5, 0-35V. Current - 0-6A, 0-3A. Programming Resolution: Voltage - 10mV. Current - 2mA. OVP - 200mV. Programming Accuracy: Voltage - 0.05% + 2 LSB. Current - 0.15% + 5 LSB. OVP - 2.4% + 0.3V. Weight - 18 lbs. (8.1 kg).



1775

DC Output Max Ratings: Voltage - 0-35V. Current - 0-2A. Programming Resolution: Voltage - 10mV. Current - 0.6mA. OVP - 200mV. Programming Accuracy: Voltage - 0.05% + 2 LSB. Current - 0.15% + 5 LSB. OVP - 2.4% + 1.3V. Weight - 20 lbs. (9.0 kg).

1780

DC Output Max Ratings: Voltage - 0-18V. Current - 0-4A. Programming Resolution: Voltage - 5mV. Current - 1.5mA. OVP - 100mV. Programming Accuracy: Voltage - 0.05% + 2 LSB. Current - 0.15% + 5 LSB. OVP - 2.4% + 0.6V. Weight - 18 lbs. (8.1 kg).

Offering the best cost per watt available to answer virtually any application, you can select from three versatile models in popular voltage and current ratings. Each model features excellent reliability (50K hrs. MTBF) and user flexibility. You can choose voltages to 35VDC, currents to 6A in single and dual output models. Excellent programming resolution and accuracy. Dual output, dual range flexibility meets most needs; connect in series or parallel for increased voltage or current capabilities (Models 1780 and 1775). Integral system software makes in-case calibration quick and accurate. Large character LCD display assures fast, "easy-to-read" measurements. Three year warranty. Line regulation (120V  $\pm 10\%$ ) - 0.001%. Load regulation - 0.001% + 1mV. Ripple and noise - 1 mV rms. Operating voltage - 110-120VAC, 220-230VAC. Dimensions (WxHxD) - 8.4 x 5.2 x 15.7 (213 x 132 x 398 mm). Display - 4 digit alphanumeric LCD.

# Power Supplies, Converters & Adapters

## BK PRECISION

### High Current DC Power Supplies

- 1790 Output (DC): 0-32V, Output Current (DC): 0-20A  
 1791 Output (DC): 0-64V, Output Current (DC): 0-10A



Cost effective, high power, regulated DC power supplies with 640 watt output. Linear high current DC power supplies suitable for bench operation or standard 19" rack operation. Low noise output. Automatically cross over from constant voltage to constant current mode and vice-versa if the output exceeds preset limits. Front panel LED meters for monitoring voltage and current. Output terminal may be grounded or floated up to a maximum of  $\pm 300\text{VDC}$  above ground. Special features include the ability to set constant current with no load and remote sense to compensate for any wire loss. Designed to meet CE specifications. Constant voltage/constant current operation. Remote programming facility. Facility for presetting the output voltage and maximum load current limits. Separate DC output ON/OFF switch. High stability and close regulation  $\pm 0.01\%$ . Constant Voltage Mode: Line regulation ( $120\pm 10\%$ ) -  $\pm 0.01\% \pm 2\text{mV}$ . Load regulation -  $\pm 0.01\% \pm 2\text{mV}$ . Ripple and noise -  $\leq 1\text{mV rms max}$ . Constant Current Mode: Line regulation ( $120\pm 10\%$ ) -  $\pm 0.05\% \pm 10\text{mA}$ . Load regulation -  $\pm 0.05\% \pm 10\text{mA}$ . Ripple and noise -  $6\text{mA rms max}$ . Overload protection - constant current type. Stability -  $\pm 0.2\% \pm 10\text{mV}$  in CV mode;  $\pm 0.5\% \pm 10\text{mA}$  in CC mode. Operating temperature -  $32^\circ$  to  $104^\circ$  ( $0^\circ$  to  $40^\circ\text{C}$ ). Power requirements - 120/230V, 60 Hz  $\pm 10\%$ . Dimensions (WxHxD) -  $19 \times 5.25 \times 15.75"$  ( $483 \times 133 \times 400\text{mm}$ ). Weight - 62 lbs. (28.1 kg). Two year warranty.

### Switch Mode Power Supply

1692



Provides high current output in a lightweight and compact package. Suitable for a variety of uses, especially for powering DC operated mobile radio equipment on the bench. It provides a variable voltage output from 3V to 15V at 40A continuous operation. In addition a fixed 13.8 VDC output is also selectable by a slider switch. Switching mode power supplies have the advantage of lightweight and high efficiency when compared to traditional linear mode power supplies. The efficiency can exceed 80% under the best conditions. Advanced circuitry protects against overload and provides immunity from RFI. A bright red and green LED display provides accurate and highly readable indicator of settings. Lightweight and compact. Current fold-back circuitry with illuminated indicator prevents overloading the power supply. Over temperature protection circuitry. Over voltage protection prevents abnormal high output voltage. High RFI stability. Variable output 3V to 15V at 40A. Ripple and noise -  $\leq 10\text{mVrms}$ . Line regulation ( $120\text{V}\pm 10\%$ ) -  $80\text{mV}$  ( $\pm 10\%$  variation). Load regulation -  $230\text{mV}$  (0-100% load). Power requirements - 120 VAC, 60 Hz. Metering - dual color digital LED. Dimensions (HxWxD) -  $8.67 \times 4.33 \times 11.82"$  ( $220 \times 110 \times 300\text{mm}$ ). Weight - 7.7 lbs. (3.5 kg). One year warranty.

### Dual Output Isolation Transformer

TR-110



Designed for safe testing of transformerless equipment. Direct-convenience duplex outlet provides line voltage for auxiliary equipment up to 500 VA. Isolated-two 3-position slide switches provide 9 combinations of voltage selection from 90 to 140 V, up to 350 VA continuous or 500 VA intermittent. Self-contained power switch with pilot lamp. UL listed. Input requirements-105-130 VAC, 60 Hz. Direct and isolated connections-duplex outlet (3-conductor). Regulation-no load (350 VA), voltage change  $< 4\%$ . Isolation-complies UL standard 1012, May 1977. Dimensions (HxWxD)- $5.1 \times 5.5 \times 8"$  ( $130 \times 140 \times 200\text{mm}$ ). Weight-11 lbs. (5 kg). One year warranty.

## BK PRECISION

### Variable Isolated AC Power Supply

1653A



Compact, rugged design. Variable isolated 0-150 VAC. Two A continuous output. Displays voltage or current readings. Isolation transformer to eliminate shock hazard while servicing "hot chassis" equipment. Output isolation - leakage less than 0.1 mA ( $25^\circ\text{C}$ , 50% R.H.). Current ranges - 0-2A. Maximum current (isolated) - 2A continuous (0-130V). Voltage/current sensing - sine wave average, calibrated in RMS. Meter scale - 0-140 VAC, 0-2 VAC. Metering -  $3^{1/2}$  overrange protected. Meter accuracy -  $\pm 5\%$  of full scale. Power requirements - 120 VAC  $\pm 10\%$ , 60 Hz 300 VA. Dimensions (HxWxD) -  $5.5 \times 6.5 \times 10.5"$  ( $140 \times 165 \times 267\text{mm}$ ). Weight - 12 lbs. (5.5 kg). One year warranty.

1655A

Displays V, A, VA and leakage. Variable-isolated output - 0-150 VAC. Three A continuous, 4 A intermittent output. Built-in soldering iron temperature control. Expanded leakage scale. Circuit breaker overload protection. Output isolation - leakage less than 0.1 mA ( $25^\circ\text{C}$ , 50% R.H.). Current ranges - 0-2A, 0-4A. Maximum current (isolated) - 3A continuous, 4A intermittent (0-130V). Peak current (inrush) - 30A maximum (inrush limited to one cycle at 30A). Voltage/current sensing - sine wave average, calibrated in RMS. Meter scale - 0-240 VAC, 0-480VAC (voltage set at 120). Leakage - 0-500  $\mu\text{A}$  (expanded in 100-500  $\mu\text{s}$  portion, compressed to 5mA full scale). Metering -  $4^{1/2}$  multi-color scales, overrange protected. Meter accuracy -  $\pm 5\%$  of full scale (volts and current),  $\pm 5\%$  at 500 $\mu\text{A}$  (leakage). Soldering iron temperature control - 70 - 99% of power line (100W max). Power requirements - 120 VAC  $\pm 10\%$ , 60 Hz 600 VA at maximum output. Dimensions (HxWxD) -  $10.5 \times 5.7 \times 12"$  ( $267 \times 145 \times 305\text{mm}$ ). Weight - 22 lbs. (10 kg). One year warranty.

### Fixed Voltage Power Supplies

1680



Current foldback overload, short circuit and reverse polarity protection. Convenient cigar lighter output. Output voltage - 13.8 VDC  $\pm 0.5\text{V}$ . Output current - 6 ADC peak, 4 ADC continuous. Line regulation - (110-132 VAC)  $\leq 130\text{mV}$ . Ripple and noise -  $\leq 10\text{mV rms}$ . Power requirements - 110-132 VAC, 60 Hz. Power consumption - 185W. Temperature operating range -  $0^\circ$  to  $40^\circ\text{C}$ ,  $\leq 75\%$  R.H. Temperature storage range -  $-15^\circ$  to  $70^\circ\text{C}$ ,  $\leq 85\%$  R.H. Dimensions (HxWxD) -  $3 \frac{5}{8} \times 6 \frac{5}{16} \times 6 \frac{3}{4}"$  ( $92 \times 160 \times 170\text{mm}$ ). Weight - 6.5 lbs. (2.9 kg). One year warranty.

1682

Current foldback overload, short circuit and reverse polarity protection. Thermostatically controlled cooling fan. Output voltage - 13.8 VDC  $\pm 0.5\text{V}$ . Output current - 15 ADC peak, 12 ADC continuous. Line regulation - (110-132 VAC)  $\leq 0.8\%$ . Ripple and noise -  $\leq 10\text{mV rms}$ . Power requirements - 110-132 VAC, 60 Hz. Power consumption - 400W. Temperature operating range -  $0^\circ$  to  $40^\circ\text{C}$ ,  $\leq 75\%$  R.H. Temperature storage range -  $-15^\circ$  to  $70^\circ\text{C}$ ,  $< 85\%$  R.H. Dimensions (HxWxD) -  $5 \frac{1}{2} \times 5 \frac{7}{8} \times 12"$  ( $140 \times 150 \times 305\text{mm}$ ). Weight - 15 lbs. (6.75 kg). One year warranty.

# Power Supplies, Converters & Adapters

## BK PRECISION

### Regulated 28A DC Power Supply

1689 Precision analog  
1690 Digital LED



Models offer multiple DC output terminals: two pairs of 3A, snap-in DC connectors are easily accessible on the front panel, and a pair of 28A screw-on DC output terminals are located on the rear panel. Both models provide their maximum current output continuously hour after hour without thermal drifting. They are ideal car battery substitutions for servicing or demonstrating high power car stereo, cellular phone products, or even ham radio. IVDC to 15VDC variable output. 28A output at  $\geq 13.5\text{VDC}$ . Overload protection. High RFI stability. Multiple DC output terminals. One year warranty. DC Output Max Ratings: Voltage - 1-15V. Current - 28A (@ 13.8V). Line regulation - 5mV ( $\pm 2\%$  load). Load regulation - 50mV (0-100% load). Ripple and noise (RMS) - 5mV. Operating voltage - 120VAC, 60Hz. Dimensions (WxHxD) - 9.84 x 5.5 x 8.86" (250 x 140 x 225 mm). Weight - 19.9 lbs (9 kg).

## CSI/SPECO

### Power Supplies

Fuse and auto reset circuit breaker overload protection; heavy duty grounded 3 prong AC power cord; universal binding posts; regulated and filtered output (PSR-25, PS-4CL, PSR2/24, PSR-4C, PSR-4, PSR-7, PSR-18, PSR-10 and PSR-4/24). Cigarette lighter adapter included (PS-4CL and PSR-4C). Built-in front panel (PSR-4C).



Part No.	Input	Output	Size (in) H x W x D
PSR-4C	117V AC - 60 Hz	12V DC - 4 Amp Constant, 5 Amp Surge	2 $\frac{1}{2}$ x 4 $\frac{1}{4}$ x 7 $\frac{1}{2}$
PS-4CL	117V AC - 60 Hz	13.8V DC - 3 Amp Constant, 4 Amp Surge	2 $\frac{1}{4}$ x 4 x 7 $\frac{1}{2}$
PSR-2/24	117V AC - 60 Hz	24V DC - 2 AMP Constant, 2.5 Amp Surge	2 $\frac{1}{2}$ x 4 $\frac{1}{4}$ x 6 $\frac{1}{4}$
PSR-4	117V AC - 60 Hz	12V DC - 4 Amp Constant, 6 Amp Surge	2 $\frac{1}{2}$ x 4 $\frac{1}{4}$ x 7 $\frac{1}{2}$
PSR-25	117V AC - 60 Hz	13.8V DC - 25 Amp Constant, 30 Amp Surge	5 x 9 x 12
PSR-35	117V AC - 60 Hz	13.8V DC - 35 Amp Constant, 40 Amp Surge	5 x 9 x 15 $\frac{1}{2}$
PSR-50	117V AC - 60 Hz	13.8V DC - 50 Amp Constant, 56 Amp Surge	11 $\frac{1}{4}$ x 14 x 15 $\frac{1}{2}$
PSR-10	117V AC - 60 Hz	12V DC - 10 Amp Constant, 12 Amp Surge	4 $\frac{1}{2}$ x 6 $\frac{1}{2}$ x 7 $\frac{1}{2}$
PSR-7	117V AC - 60 Hz	12V DC - 7 Amp Constant, 9 Amp Surge	3 $\frac{3}{4}$ x 6 $\frac{1}{4}$ x 7 $\frac{1}{2}$
PSR-4/24	117V AC - 60 Hz	24V DC - 4 Amp Constant, 5 Amp Surge	4 x 6 $\frac{1}{2}$ x 6 $\frac{1}{2}$
PSR-18	117V AC - 60 Hz	12V DC - 18 Amp Constant, 20 Amp Surge	4 $\frac{3}{4}$ x 7 $\frac{1}{2}$ x 11 $\frac{1}{2}$

### Power Inverter INV-130

Twelve volt DC to 117 volt AC 130 watt, 200 watt surge power inverter with car cigarette plug adapter. Auto shutdown when battery voltages goes below 10.5 volts.



## Philmore

### 12 Volt DC Power Supply 48-130

A desk top power supply for operating automotive equipment in the home or office. Use your house AC power to operate items such as spotlights, CD and Ham radios, coolers, video equipment, etc. The unit plugs into an AC outlet and has lighter socket.



### Power Cable with Assorted Coaxial Plugs 48-400

The power cord has spade lugs to be attached at terminals on power supplies. The jack on the other end of the cord can accept any one of the six coaxial plugs included with this set. You can power almost any radio, calculator, etc. with this accessory set and a Philmore power supply.



### AC to AC Adapter 48-414

For any device which requires 18V AC power with 300mA rating. UL listed with 6 ft cord and 3.5mm plug.



### 12 Volt DC Regulated Power Supply MW123

Ideal for operating any 12-14 VDC equipment from 117VAC AC power outlet. For use with CD radio, car radio, ham transceivers, tape players, mobile scanners and other DC equipment requiring 3 amp continuous (5 amp surge) at 13.8 VDC. The design of this unit incorporates an automatic overload circuit that shuts unit down. The unit will automatically reset. No troublesome fuses to replace. Also protected against damage caused by accidental short circuit. Features: LED indicator light. Fail-safe over-voltage circuit. Short circuit protected. Overload protected with auto reset. Solid state reliability. Filtered output. Binding posts. Case Size: 6"x4-1/2"x3-1/2" (including rubber feet). Weight: 4-3/4 lbs.



### Regulated DC Power Supply

MW122A  
MW2122A

This compact sized regulated power supply is ideal for all devices drawing up to 2 amperes. It is fully regulated to assure that a constant, accurate DC power is delivered to different kinds of electronics and electrical appliances. The rotary selector for choice of 6 voltages (3, 4.5, 6, 7.5, 9, 12VDC), with any currents not more than 2000mA e.g. portable TV sets, video games, tape recorders, radios, scanners, boom boxes, etc. The red and black binding posts enable easy connection. In addition, an optional cable is available for easy hook-up to devices with a DC input receptacle. Features: Operates on 110/120 VAC (MW122A). Operates 220/240 VAC (MW2122A). Provides constant current from 0-2000mA. Fully regulated, low ripple. Short circuit protection. Automatic thermal cut off. Automatic overload protection. Heavy duty red and black binding posts. LED red lamp indicates power. Dimensions: 3 $\frac{3}{4}$ " wide x 5 $\frac{1}{4}$ " long x 2 5/8" high. Net weight 2 lb. 14 oz.



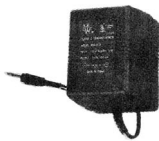
# Power Supplies, Converters & Adapters



## AC to DC Power Supplies

120 Volts AC, 60 Hz, power input to various DC outputs for operating small circuits of any kind. Terminated with a 3.5mm plug, tip positive. User could remove plug and replace with his own when needed or use an adapter. Cord is six-foot. Output is clean, adequate for use with radios and other audio equipment as well as calculators, for charger's and an endless list of small devices.

Part No.	DC Volts	Max. Curr.
MW310	3	100 mA
MW450	4.5	500 mA
MW630	6.0	300 mA
MW930	9.0	300 mA
MW950	9.0	500 mA
MW1230	12.0	300 mA
MW1250	12.0	500 mA
MW1280	12.0	800 mA
MW1830	18.0	300 mA



## Multiple Voltage Selection - 300 mA BE226

Conserves batteries conveniently and reliably on most equipment. Adapter plugs into ordinary 120VAC, 60 Hz house current. Has built-in polarity reversal switch. Employs a full wave bridge rectifier, with 100mfd filter capacitor for good regulation and lowest hum level. Six interchangeable plugs are included with the unit to serve most power-up needs. Plugs are 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35 mm x 3.5mm, 1.7mm x 4.0mm and 9 volt snap adapter. Output: 1.5,3, 4.5, 6, 7.5, 9, 12VDC @ 300mA. UL listed.



## Heavy Duty Multiple Voltage Selection - 500 mA BE227

Conserve batteries that are commonly used with giant portable stereos, video games, 2-way radios and mobile rigs. A full wave bridge circuit with a 2200mfd filter capacitor is built-in to eliminate unwanted "hum". Includes adapter for Walkman type players. Six interchangeable plugs are included with the unit to serve most power-up needs. Plugs are 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35 mm x 3.5mm, 1.7mm x 4.0mm and 9 volt snap adapter. Output: 3, 4.5, 6, 7.5, 9, 12VDC @ 500mA. UL listed. Plug-in polarity reversal. Ideal for large audio equipment.



## Heavy Duty Multiple Voltage Selection - 800 mA BE240

Plug-in polarity reversal. Plugs into 120VAC/60Hz house current. Cord length is 6 foot. Circuit employs full range bridge rectifier with filter capacitor for excellent regulation and elimination of AC "hum". Output selection: OFF, 3, 4.5, 6, 7.5, 9, 12VDC @ 800mA. Six interchangeable plugs are included with the unit to serve most powerup needs. Plugs are 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35 mm x 3.5mm, 1.7mm x 4.0mm and 9 volt snap adapter.



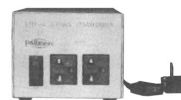
## Regulated DC to DC Converter, 2 Amps 48-150

A power converter that will provide any one of six different DC voltages in your automobile. It plugs into the cigarette lighter socket. Full regulation assures that the voltage is accurately controlled to protect your equipment. The user may select one of the following voltages: 3, 4.5, 6, 7.5, 9 or 12. A set of six different coaxial power plug adapters will allow this device to connect to almost any equipment you have, including CD's and scanners. Special features: integrated circuit regulation, LED pilot light, fuse in lighter plug, valuable power plug set, safety features such as short circuit and overload protection.



## Heavy Duty Stepup/Stepdown Converters

110V AC to 220V AC or 220V AC to 110V AC. Heavy duty transformer for safety and reliability. ON/OFF switch with indicator light. Deluxe metal console, carrying strap handle for 1000 watt model and up. Universal output receptacles. Safety features include: Built-in (non-detachable) power cord with strain relief. Fused protection. Safety polarized input switch. Non-slip rubber feet.



Part No.	L x W x H (in)	Weight	Std. Pack/Ctn.
ST100	5 1/8 x 3 3/4 x 3 1/4	4	12
ST200	5 1/8 x 3 3/4 x 3 1/4	5	12
ST300	6 7/8 x 4 3/4 x 3 3/4	7	8
ST500	7 x 4 3/4 x 3 3/4	9	6
ST750	7 x 4 3/4 x 3 3/4	11	4
ST1000	8 1/4 x 7 1/8 x 5 3/4	22	1
ST1500	8 1/4 x 7 1/8 x 5 3/4	24	1
ST2000	9 3/4 x 7 1/8 x 5 3/4	31	1
ST3000	9 7/8 x 7 1/4 x 5 3/4	35	1
ST5000	13 3/4 x 8 1/4 x 9 1/2	44	1

## DC to AC Power Inverter

### DC330 GALAXY 200



These two units plug into the automobile cigarette lighter socket and provide you with a 110 volt AC outlet. This provides power for a range of products, from computers to TV or radio. Built into both units are a number of important features such as a low battery warning, overload protection, overheat protection, and both are fused. Be sure to operate only devices that do not exceed the power ratings of these supplies. CAUTION: When using DC330, do not exceed 200 watts via cigarette lighter outlet. If wattage needs are in excess of 200 watts, use enclosed jumpers to attach directly to 12 volt battery. GALAXY 200 specifications: 100V - 120V AC. Power input - 10-15V DC. Power output - 100V-120V AC. Continuous power - 200 watts. Peak power - 400 watts. Output frequency - 60 Hz + 1%. Output wave form - modified sine wave. Efficiency - 90%. No load current - 50mA. Size - 2"H x 7.75"L x 4.75"W. Weight - 1.9 lbs. DC330 specifications: 100V - 120V AC. Power input - 10-15V DC. Power output - 100V-120V AC. Continuous power - 330 watts. Peak power - 600 watts. Output frequency - 60 Hz + 1%. Output wave form - modified sine wave. Efficient - 90%. No load current - 50mA. Size - 2.68"H x 5.60"L x 6.30"W. Weight - 2.75 lbs. Double grounded AC receptacles.

# Power Supplies, Converters & Adapters



## World Traveler AC/DC Adapter (600mA) 48-140

Dual voltage 110/120V with two flat pin and additional two round pin adapter plug. Enables the traveler to use this adapter in parts of most continents. Voltages are 1.5, 3, 4.5, 6, 7.5, 9, 12VDC with LED indicator and six most common detachable single plugs. Fits most all appliances e.g. radios, cassette recorders, handheld games, calculators, portable phones, toys, office equipment and other electronic products.



## Regulated Mobile DC-DC Converter BE19

Designed to power battery operated equipment drawing up to 1 amp current (1000mA). Completely regulated and maintains voltage constant within 1 volt despite wide variations in load current. Accepts 12-16 VDC input from conventional negative ground. Maximum current specifications: 12VDC - 1 amp (1000mA); 9VDC - 500mA; 6VDC - 500mA; 3VDC - 300mA. Comes with six adapter plugs to match nearly all applications. Polarity reversal achieved by rotating adapter plugs 180°.



## DC Converter BE164

Use in auto, boat, truck camper van, etc. Input - 12VDC @ 800mA. Output - 1.5, 3, 4.5, 6, 7.5, 9 and 12.



## Regulated DC/DC Converter 48-160

Because most converters "block" the cigarette lighter socket during use, this well planned unit has two of these sockets so that you may use a converter and other devices such as a scanner or radar detector as well as the converter. Full regulation assures protection for your electronic equipment. Special features: IC regulation circuit; LED pilot light; fused inside plug; voltages 1.5, 3, 4.5, 6, 7.5, 9 and 12; valuable coax power plug set; safety features such as short circuit, overload protection and thermal cutoff.



## Voltage Converter (Stepdown)

- 48-500 50 watt converter
- 48-516 1600 watt converter
- 48-5000 1600 watt converter and 4 adapters in plastic storage bag



Changes 220/240V AC to 110/120VAC (stepdown). Round two prong plugs. Flat outlet for US plugs. Fifty watt converters ideal for small appliances (razors, recorder, radio, etc.). Sixteen-hundred watt converter ideal for larger appliances (motorized) that draw more than 50 watt but under 1600 watt such as hair dryer, iron, curler, etc.

## Voltage Converter Plugs/Adapters

- 48-517 Two round pin
- 48-518 Two flat pin
- 48-519 Two angled pin, Australian type
- 48-520 Three flat pin, British type



## SCD Series, Encapsulated, Industrial DC to DC Converter

Compact, rugged power supplies designed to power industrial control instrumentation devices and equipment where AC power is not convenient or accessible. With high reliability and wide input range, these units can operate through the most difficult factory-floor conditions around the globe. "User friendly", easy-to-install DIN Rail and chassis mounting. Terminations are also easy to access (AC and DC terminations are well separated) and simple to wire. Encapsulated design meets IP20 specifications for use in harsh environments. Features: DIN Rail or Chassis Mount (by removing the DIN clip). Encapsulated design to resist environment. IP20 protection. Wide 20 VDC to 72 VDC input range. Five year warranty. Packaging and mounting specifications: Simple snap-on for DIN Rail TS35/7.5 or TS35/15. M3 screw clamp terminations. Chassis mounting possible on -DN Low-Profile versions by removing DIN clips (simply unscrew at the back of the unit.)



30 Watts, Switching DC Power Supply

Part Number	Description	Output Voltages				Minimum Load V1 A
		V1		V2		
		VDC	A	VDC	A	
SCD30S5-DN	5 V	5	6.0	-	-	0
SCD30S12-DN	12 V	12	2.5	-	-	0
SCD30S15-DN	15 V	15	2.0	-	-	0
SCD30S24-DN	24 V	24	1.3	-	-	0
SCD30S48-DN	48 V	48	0.6	-	-	0
SCD30D15-DN	Dual O/P ±15V	15	0.8	-15	0.8	0.15

## SDP Low Power DIN Rail Series

Ultra compact, narrow width (1.77" x 2.95" x 3.58"). Designed specifically for the industrial environment. Rated from -10°C to 70°C, with no derating necessary until after 60°C. High quality construction, designed with a minimum of electrolytic capacitors. No tools required for mounting and wiring. Adjustable 24-28 volt output. DC OK signal relay contact (50 watt). Overvoltage and short circuit protection. Class 2 Limited Power Source for building automation or DeviceNet™. Highly reliable. Continuous short circuit protection. Low output noise (less than 50 mVpk/pk). Many extra "industrial" features are standard. Special overload circuitry can start up industrial loads that can cause most ordinary power supplies to foldback or shutdown. DC indicator and front panel adjustment potentiometer. "No tool" DIN mounting and wiring. Screwless connectors help eliminate expensive installation time. So with a click and a few snaps, the SDP can drive down your low power DC industrial loads. Three year warranty.



Part Number	Input Voltage	Output Voltage	Output Current
SDP1-24-100	85-264 VAC	24-28 VDC	1.3 A
SDP2-24-100	85-264 VAC	24-28 VDC	2.1 A

# Power Supplies, Converters & Adapters



## SDN DIN Rail Series

Industry leading performance with a true industrial grade design and high quality that meets difficult industrial environmental conditions including high shock, vibration and wide temperature ranges over the long life cycle of industrial equipment. Operation: -10°C to 60°C without derating. Indefinite short circuit, overvoltage and overtemperature protection. Powers high inrush loads without shutdown or foldback. Rugged metal case and DIN connector. Class 2 Limited Power Source rating on SDN2.5-24-100. Narrow width on rail for space critical applications. User-friendly front panel. Large, rugged, accessible multiple connection screw terminations. Easy to mount and connect. Highly efficient >90% switching technology. Three year warranty. Applications - industrial/process/machine control and DeviceNet™. Protected against short-circuit, overload, open-circuit. Overvoltage protection for output set @ 32V ±10%. Protection class I (IEC536), degree of protection: IP20 (VDE 0470, IEC 529). Safe low voltage: SELV (acc. EN60950). Internally fused. Simple snap-on system for DIN Rail TS35/7.5 or TS35/15 or chassis-mounted (optional screw mounting set required).



Part Number	Input Voltage	Output Voltage	Output Current	Dimensions (in) H x W x D
SDN 2.5-24-100	115/230 VAC	24 VDC	2.5 A	4.88 x 1.97 x 1.97
SDN 5-24-100	115/230 VAC	24 VDC	5.0 A	4.88 x 2.91 x 4.04
SDN 10-24-100	115/230 VAC	24-28 VDC adj.	10.0 A	4.88 x 5.39 x 4.04
SDN 4-24-100	115/230 VAC	24 VDC	4.0 A	4.88 x 2.56 x 4.04
SDN 5-24-480	380-480 VAC	24-28 VDC adj.	5.0 A	4.88 x 2.56 x 4.04
	Auto Range 3PH			
SDN 20-24-480	480 VAC 3 PH	24-28 VDC adj.	20.0 A	4.88 x 8.94 x 4.04
SDN 30-24-480	380-480 VAC	24-28 VDC adj.	30.0 A	4.88 x 9.72 x 4.25
	Auto Range 3PH			
SDN 40-24-480	380-480 VAC	24-28 VDC adj.	40.0 A	4.92 x 11.10 x 4.45
	Auto Range 3PH			

## SCL Series, 4 and 10 Watt CE Linears

Available in dual and triple outputs for applications with sensitive electronics and analog circuitry. The rugged enclosed encapsulated package, with screw terminals and DIN Rail clips, make for easy installation and maintenance. These low-noise modules are capable of being DIN rail or chassis mounted. Quiet, low noise DC linear technology. Global specifications including CE and UL 508. Two year warranty. Chassis mounting possible on -DN Low-Profile versions by removing DIN clips.



Part Number	Description	Output Voltages		
		V1 VDC/A	V2 VDC/A	V3 VDC/A
4 Watt; Linear DC Power Supply; DIN Rail Mount				
SCL4D12-DN	Dual O/P ± 12 V	12/0.15	-12/0.15	N/A
10 Watt; Linear DC Power Supply; DIN Rail Mount				
SCL10D12-DN	Dual O/P ± 12V	12/0.35	-12/0.35	N/A
SCL10D15-DN	Dual O/P ± 15V	15/0.3	-15/0.3	N/A



## SCP Series, 30 Watt; Single, Dual and Triple

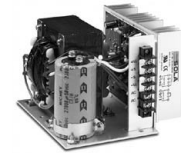
Compact, rugged power supplies designed to power many of your industrial control and instrumentation devices and equipment, with high reliability and tight regulation through the most difficult factory-floor conditions around the globe. International approvals for global use. Many output voltages, 3.3-48 Volts; single, dual and triple. Five year warranty.



Low Profile Part Number	Description	Output Voltages			Min. Load V1 A	Efficy. %
		V1 VDC/A	V2 VDC/A	V3 VDC/A		
SCP30S5-DN	5V	5/6.0	N/A	N/A	0	≥ 70
SCP30S12-DN	12V	12/2.5	N/A	N/A	0	≥ 75
SCP30S15-DN	15V	15/2.0	N/A	N/A	0	≥ 75
SCP30S24-DN	24V	24/1.3	N/A	N/A	0	≥ 77
SCP30D12-DN	Dual O/P ± 12V	12/1.2	-12/1.2	N/A	0.12	≥ 68
SCP30D15-DN	Dual O/P ± 15V	15/1.0	-15/1.0	N/A	0.15	≥ 68
SCP30T512-DN	Triple O/P 5/12/12V	5/3.0	-12/0.6	12/0.6	0.3	≥ 68
SCP30T515-DN	Triple O/P 5/15/15 V	5/3.0	-15/0.5	15/0.5	0.3	≥ 68

## Linear OEM

- 83-24-260-3 24V @ 6A output
- 81-05-230-2 5V @ 3.0A output, 115 volt input only
- 81-24-180-2 24V @ .8A output, 115 volt input only
- 83-12-218-3 12V @ 1.8A output
- 83-24-212-3 24V @ 1.2A output
- 83-24-225-3 24V @ 2.5A output



Low noise output. 115/230 VAC input. Remote sensing. For bench and rack use. Completely protected short circuit proof; automatic foldback. Current limiting - automatic reset. Isolated floating output. UL Recognized and CSA Certified. Warranted for one full year. Built-in OVP on five volt models. Terminal block on case D models (24V/6A). One year warranty. Applications - microprocessor circuits, process controls, control circuits, noise sensitive circuits, instrumentation, CNC machinery and analog circuits.

## GL Series: Single & Multi Output Switchers

Universal input. Compact size. Industry standard size (3x5", 40 watt). On board input fuse. Automatic overload protection. OVP on output #1. UL Recognized and CSA Certified, TUV, CE, LVD. IEC 950. 100% burn-in. One year warranty. Power fail signal on 110 and 200 watt model. 200 watt enclosed with screw terminals. Applications - industrial computers, control, instrumentation, scanners, drive circuits, CNC machinery, printers and peripherals.



Part Number	Output 1	Output 2	Output 3	Output 4	Max. Output
GLS-04-040	24V, 2A	N/A	N/A	N/A	40W
GLS-04-200	24V, 8.4A	N/A	N/A	N/A	200W
GLS-04-110	24V, 4.5A	N/A	N/A	N/A	110W
GLS-02-200	12V, 16.7A	N/A	N/A	N/A	200W
GLS-03-040	15V, 3A	N/A	N/A	N/A	40W
GLT-03-065	5V, 3A	15V, 2A	-15V, 0.3A	N/A	65W
GLQ-01-110	5V, 10A	12V, 5A	-12V, 1A	-5V, 1A	110W
GLQ-05-200	5V, 30A	12V, 8A	-12V, 4A	24V, 4A	200W

# Power Supplies, Converters & Adapters



## Silver Line Series - Single & Multi-Output Linears



The Silver Line series follows the industry accepted footprint for open frame, linear power supplies. SL series offers standard screw terminal connections and optional covers for safety considerations. Easy-to-install screw terminal connections. Cover options. Industry standard footprint. Universal input and approvals (115/230 VAC). Low noise, extremely quiet DC output. For noise sensitive or analog circuitry. Fast transient response. Ideal for test applications. Built-in OVP on 5V models and optional on 12, 15 and 24 V models. Automatic resetting overload protection. Short circuit protection. Two year warranty. Applications - industrial control circuits and components, instrumentation, drives, CNC machinery, equipment for food industry, microprocessor circuits, analog circuits and noise sensitive circuitry and sensors.

Part Number	Output 1	Output 2
SLS-05-030-1T	5V@3A*#	N/A
SLS-05-060-1T	5V@6A*#	N/A
SLS-12-017T <sup>1</sup>	12V@1.7A# or 15V@1.5A	N/A
SLS-24-012T	24V@1.2A#	N/A
SLS-12-034T	12V@3.4A#	N/A
SLS-24-024T	24V@2.4A#	N/A
SLS-24-036T	12V@3.6A#	N/A
SLS-24-048T	24V@4.8A#	N/A
SLS-24-072T	24V@7.2A#	N/A
SLS-24-120T	24V@12.0 A#	N/A
SLD-12-1010-12T <sup>1</sup>	12V@1A or 15V@.8A	-12V@1A or -15V@.8
SLD-12-1818-12T <sup>1</sup>	12V@1.8A or 15V@ 1.5A	-12V@1.8A or -15V@1.5A

\* with built-in OVP  
# with remote sense (R.S)  
<sup>1</sup> 12/15 volt models are factory set for 12 volt operation. 15 volt operation is field adjustable.



## PowerVerter® General Purpose Inverters

The economical solution for mobile power needs. Compact, lightweight design. Ideal for use with most small appliances and tools. Fused overload protection. All models have American NEMA 5-15R outlets. Not recommended for any application with a power factor greater than 0.8.



PV 200

Part Number	Input Volt (DC)	Output Volt (AC)	Cont. Output Power	Peak Output Power	DC Draw (full load)	DC Draw (full load)	Size HxWxD	Wght
PV 125	12	120	125 watts	175 watts	12 amps	1	3 1/2" x 3 1/2" x 5 1/2"	3lbs
PV INT 125	12	230	125 watts	175 watts	12 amps	1+	8.9x8.9 x14cm	1.4 kg
PV 200	12	120	200 watts	300 watts	19 amps	1	4" x 4" x 7"	6lbs
PV 400	12	120	400 watts	600 watts	39 amps	1	4" x 4" x 7"	10lbs
PV 400/24	24	120	400 watts	600 watts	39 amps	1	4" x 4" x 7"	10lbs
PV 550	12	120	550 watts	800 watts	45 amps	2	7" x 7" x 10"	19lbs



## DC Power Supplies



PR 15

Designed for years of reliable service and superior performance. They efficiently convert 120 volts AC into 13.8 volts DC ( $\pm 5V$ ). International models convert 230 volts AC into 13.8 volts DC ( $\pm 5V$ ). New attractive design - smaller footprint maximizes operating space. Crowbar over-voltage protection prevents damage to connected equipment due to over-voltages (15 amp and larger models). Current-limiting electronic foldback for automatic overcurrent protection in case of overload; time controlled on 7 amp and larger models. Solid state, integrated circuit provides excellent regulation of output voltage. Regulated output voltage maintains up to 95% of no load value. High quality filtering provides for very low ripple/low noise operation. Heavy-duty power transformer provides complete isolation from noise on incoming AC power. Large heat sinks and vented cabinet provide cool operation for continuous use and long life of the unit. Illuminated on/off switch. Three-conductor grounded cord (10 amp and larger models).

Part No.	AC Input Voltage (vltz./Hz)	ICS (amps)	Cont. Duty (amps)	Fusing	Size (HxWxD) in./cm	Wght. lbs./kg.	General Applications Guide
PR 3	120/60	3	2	Internal	3 x 4 1/2 x 7 1/2	4	Home use of CB radios; quality car tape players
PR 3UL	120/60	4.5	3	Internal	4 1/4 x 3 x 7 1/2	5	Home use of single-sideband CB radios; quality car tape players; tape recorders
PR 4.5	120/60	4.5	3	Internal	3 1/4 x 3 x 8 1/4	5	Home use of single-sideband CB radios; quality car tape players; tape recorders
PR 7	120/60	7	5	Chassis mount	3 3/4 x 6 1/2 x 7 1/2	7	Home use of single-sideband CB radios; high-power car stereos; low power VHF/UHF ham radios
PR 10	120/60	10	7.5	Chassis mount	4 1/2 x 6 1/2 x 7 1/2	10	30 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; low power linear amplifiers
PR 12	120/60	12	9	Chassis mount	4 1/2 x 6 1/2 x 7 1/2	11	30 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; low power linear amplifiers
PR 15	120/60	15	12	Chassis mount	4 1/2 x 6 x 10	13	50 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; small linear amplifiers
PR 20	120/60	20	16	Chassis mount	4 1/2 x 6 x 10	15	50 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; small linear amplifiers
PR 25	120/60	25	20	Chassis mount	6 1/2 x 6 1/2 x 10 1/2	19	75 and 100 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; small linear amplifiers; test bench power supplies
PR 35	120/60	35	25	Chassis mount	6 1/2 x 6 1/2 x 10 1/2	23	150 and 200 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; medium linear amplifiers; test bench power supplies
PR 40	120/60	40	32	Chassis mount	6 1/2 x 10 1/2 x 11 1/2	27	150 and 200 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; medium linear amplifiers; test bench power supplies
PR 50	120/60	50	37	Chassis mount	6 1/2 x 10 1/2 x 11 1/2	30	250 and 300 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; multiple-piece radio installations; microwave applications
PR 60	120/60	60	48	Chassis mount	6 1/2 x 10 1/2 x 11 1/2	33	250 and 300 watt transmitters; VHF/UHF ham radios; commercial/land mobile 2-way radios; multiple-piece radio installations; microwave applications