Power

AMERICAN ELECTRICAL, INC.

CABLES UNLIMITED

IDEAL

JIM-PAK ELECTRONIC COMPONENTS

LEVITON Building a Connected World

MANHATTAN BRINGING COMPUTERS TO LIFE

MODE ELECTRONICS

PAN PACIFIC ENTERPRISES CO., INC.

PANDUIT

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EGS SOLA/HEVI-DUTY Electrical Group

WEBER BY **TRIPP LITE** POWER PROTECTION

Waldom / GC ELECTRONICS THE CLEAR CHOICE

TRIPP-LITE

Internet Office™ Standby UPS Systems

Features unique surge-only outlets in addition to UPS and surge protected outlets. During power outages, computer and monitor receive battery-backup power and remaining peripherals are protected by multi-level surge protection. Protects against surge damage on up to two modem/fax lines. Maintain internet connection through short blackouts or safely shutdown during longer ones. Protects against lightning and surges. Types: A - Compact, low profile; B - Undermonitor; C - Small footprint tower.

Part #	Type	Output Cap. (VA/Watts)	Backup Time Half/Full Load (min)	Dim. (HxWxD) in.
Internet Office 500	C	500/280	17/5	8.75 x 5.25 x 6.75
Internet Office 500LP	B	500/1300	17/6	2 x 13.5 x 12.5
Internet Office 700	C	700/425	17/5	10.75 x 5.25 x 7.25
Internet 350SER	A	350/180	8/2.5	3.25 x 11 x 6
Internet 550U	A	550/300	10/3	3 x 10.5 x 5
Internet 350U	A	350/180	8/2.5	3 x 10.5 x 5
Internet 750U	A	750/450	11/4	4 x 12 x 7

BC Pro® / BC Personal™ Basic Standby UPS System

Provides reliable battery power during blackouts. Automatically saves open files during blackouts. Protects against lightning and surges. Features a convenient battery replacement door. Built-in communication port (DB9 or USB). Microprocessor-controlled warning lights. Six NEMA 5-15R receptacles (BRPRO600 3UPS/3 Surge).

BC Pro®

Part #	Cap. VA/Watts	Backup Half/Full Load (min)	Dim (HxWxD) in.
BCPRO1050	1050/705	23/7	11.75 x 7.25 x 7.25
BCPRO1400	1400/940	24/8	12.75 x 7.5 x 9
BCPRO600	600/345	19/7	10.75 x 5.25 x 7.25

BC Personal™

Part #	Cap. VA/Watts	Backup Half/Full Load (min)	Dim. (HxWxD) in.
BC Pers 300	300/175	17/5	8.5 x 4.25 x 5.5
BC Personal 450	450/280	17/5	8.75 x 5.25 x 6.75

OMNI VS (Value Series) Line Interactive UPS System

Keeps computer working through low voltage (brownouts) and without using battery power. Built-in USB communication port on select models and Free PowerAlert Software automatically saves and shuts down equipment during a blackout. Protects against lightning and surges.

Part #	Output Cap. (VA/Watts)	Backup Time Half/Full Load	Dimensions
OMNIVS800	800/475	19/6	10.75 x 5.25 x 7.25
OMNIVS1000	1000/500	18/7	10.75 x 5.25 x 7.25
OMNIVS1500XL	1500/940	14/5+	11.75 x 7.25 x 7.25
OMNIVS1500	1500/940	14/5	11.75 x 7.25 x 7.25

TRIPP-LITE

Digital UPS Systems

Keeps computer and home theater components running safely through short blackouts and allow enough time to safely shut down during longer ones. An easy-to-read, LCD display rotates for easy viewing. Automatic Voltage Regulation (AVR).

Part #	Output Cap. VA/Watts	Backup TIme	Dim. (HxWxD) in.
OMNI650LCD	650/350	11/3.5	12 x 3.5 x 6.5
OMNI900LCD	900/475	15/4	12 x 3.5 x 6.5
SMART1000LCD	1000/500	11/3	12 x 3.5 x 6.5
SMART1200LCD	1200/700	11/4	3.5 x 10.5 x 17.25
SMART1500LCD	1500/900	13/3.5	3.5 x 17.25 x 10.5

OmniSmart PNP UPS Systems

Multi-level automatic voltage regulation keeps equipment working through low voltage (brownouts) and high voltage conditions without using battery power. Serial port and free PowerAlert software included. RFI/EMI line noise filtering. New select models feature: six outlets (3 UPS and surge protected, 3 surge-only protected), 2-line modem/fax protection, and battery replacement door.
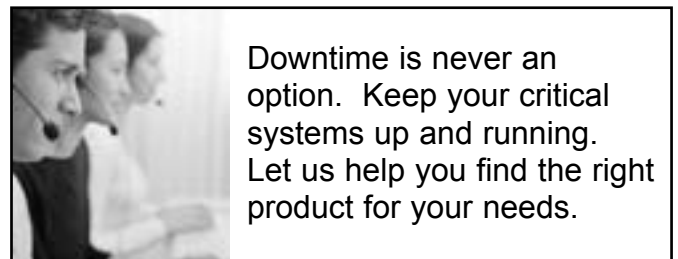
Part #	Output Cap. (VA/Watts)	Backup Time Half/Full Load	Dimensions
OMNISMART 300 PNP	300/180	32/14	8.75 x 5.25 x 6.75
OMNISMART 500 PNP	500/300	17/5	8.75 x 5.25 x 6.75
OMNISMART 700 PNP	700/425	22/7	10.75 x 5.25 x 7.25
OMNISMART 1050 PNP	1050/705	23/7	11.25 x 7.25 x 7.25
OMNISMART 1400 PNP	1400/940	24/8	12.75 x 7.5 x 9

SmartPro® USB Line-Interactive UPS System

Provides plenty of protected AC outlets and VA capacity to accommodate entire system. Includes PowerAlert Software. Provides complete protection against all types of power problems (brownouts, blackouts, surges and line noise). Built-in microprocessor to monitor incoming voltage and adjust when necessary. Reliable battery power to keep networks up safely through short blackouts and allow enough time to safely shutdown during longer ones. AC outlets stop damaging lightning and surges and filter disruptive line noise. USB port.

Part #	Output Cap. VA/Watts	Backup Half/Full Load (min)	Comm. Ports	Dim (HxWxD) in.
SMART 550 USB	550/300	17/5	1 USB	8.75 x 5.25 x 6.75
SMART 750 USB	750/450	17/5	1 USB	10.75 x 5.25 x 7.25

Downtime is never an option. Keep your critical systems up and running. Let us help you find the right product for your needs.

EDGE

SmartPro® Net Intelligent Network Tower UPS Systems

Centralizes and simplifies network power management. Automatically regulates incoming voltage. Provides reliable battery power during blackouts. Protects against lightning and surges. Up to 3000VA of battery backup keeps critical network equipment up and productive through short blackouts and gives you time to safely shutdown during longer ones. *Sine wave output.

Part #	Cap. VA/Watts	Back Half/Full Load (min)	AC Recept.	Dim. (HxWxD) in.
Smart 1050 Net	1050/705	23/8	6	11.75 x 7.25 x 7.25
Smart 2200 Net	2200/1700	27+/11+	6	17 x 9 x 12.5
Smart 3000 Net	3000/2400	23/7	8	17 x 9 x 12.5
Smart 1500	1500/980	20/7	6	12.75 x 7.5 x 9
Smart 2200VS	2200/1600	19/7	9	14.25 x 9.25 x 12
Smart 1500SLT*	1500/950	22/8	10	8.75 x 6.75 x 14
Smart 1050SLT*	1050/670	21/8	10	8.75 x 6.75 x 14
Smart 700	700/450	20/6	6	11.75 x 7.25 x 7.25

SmartPro® Intelligent Line-Interactive Rack/Tower UPS Systems

Part #	Output VA/Watts	Backup Half/Full Load (min)	Rack Space	Dim (HxWxD) in.
Smart 1000RM1U	1000/640	24/10	1U	1.75 x 17.5 x 16.75
Smart 1500RMXL2UA	1500/1000	25/10	2U	3.5 x 17.5 x 13.5
Smart 2200RMXL2U	2200/1600	16/6	2U	3.5 x 17 x 19
Smart 3000RM2U	3000/2250	13/4+	2U	3.5 x 17.5 x 19
Smart 5000RT3U	5000/4000	38/16	3U+3U	5.25 x 17 x 19
Smart 500RT1U	500/300	17/5	1U	1.75 x 17.5 x 11.75
Smart 750RM1U	750/450	24/7	1U	1.75 x 17.5 x 16.75

Smart Online - Rack/Tower - Online Double Conversion UPS

From 1000VA to 6000VA, for mission critical applications with the highest level of power protection. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. Free Power Alert software included with each unit. Adapts to tower or rack mounting. Expandable runtime.

Part #	Output VA	Backup Time Half/Full Load (min)	Rack Space
SU3000RTXL3U	3000/2400	17/6+	3U
SU6000RT3U	6000/4200	37/15+	3U+3U+3U
SU10KRT3U	10000/7000	10/4+	3U+3U+3U
SU1000RTXL2UA	1000/800	18/6+	2U
SU2200RTXL2UA	2200/1600	18/6+	2U

Smart Online - Tower Online Double Conversion UPS

Online expandable tower UPS system. Enhanced serial communications port and SNMP/web card slot. Maintains 120V ±2% output during overvoltages to 138V and brownouts as low as 65V. Two load banks and expandable runtime capability. $250,000 Ultimate Lifetime Insurance (USA and Canada only).

Part #	Output Cap. (VA/Watts)	Backup Time Half/Full Load (min)	Dim. (HxWxD) in.
SU1000XLA	1000/800	14/4.5+	10 x 6.75 x 13.25
SU2200XLA	2200/1600	14/4.5+	10.25 x 9 x 19.5
SU3000XL	3000/2400	18/6+	14.75 x 5.5 x 16.75
SU750XL	750/600	11/4	10 x 6.75 x 13.25

Medical Grade UPS

For healthcare applications. There are 4 receptacles. Includes hospital grade plug and receptacles.

Part #	Type	Output Cap. (VA/Watts)	Backup Time
OMNISMART 350HG	UL 60601-1 Listed	330/225	46/18
SMART 1200XLHG	UL 60601-1 Listed	1000/750	34/16
SMART 700HG	UL 60601-1 Listed	700/450	42/18

TE600 and TE1200 UPS Systems for Telecom Applications

Provides line-interactive voltage regulation and long lasting battery support for small and mid-size business telephone systems, voice-mail systems, personal computers and other communications, network and telecom applications. Both have power handling capacity and large capacity battery system maintains continuous operation through power interruptions. Line interactive voltage regulation maintains normal 120 volt output levels during brownouts as low as 75 and overvoltages as high as 147, saving battery reserves for use only during complete power failures.

Part #	Output Cap.	Size
TE1200	1200VA	12.5 x 7.5 x 9
TE600	600VA	10.5 x 4.75 x 7

S1K Series Off-Line UPS

Provides economical protection from damaging impulses and power interruptions. Includes separate outlets: one for critical devices needing battery backup such as the CPU while the other surge protected only outlet is for non-critical devices like printers and fax machines. Light-weight, compact design. Four NEMA 5-15R outlets. DB9 Communications Box allow interfaces easily with the PC. Software and cable included for easy installation. Step sine wave output. Two year warranty. Volts, frequency in/out is 115/115, 50/60 Hz. *For a typical PC with a 15" monitor.

Part #	Capacity (VA/W)	Typ. Runtime*
S1K320	320/240	10
S1K520	520/340	15
S1K650	650/390	15
S1K850	850/600	25
S1K1200	1200/720	30
S1K1500	1500/900	70

 SOLA/HEVI-DUTY

Wall/Panel Bracket Kit
For S1K (320VA - 1200VA) UPS.

Part # S1K-PMBRK

S2K Series Line-Interactive UPS
Data line protection for telephones or networks. Modem or fax surge suppression. Line interactive technology. 50/60Hz rated. EMI/RFI filtering to FCC Class B. Network interface capability for future upgrading. User changeable batteries (hot swap). 120 Volt models are cULus Listed. Two year warranty.

Part #	(VA/W)	Typ. Runtime Full/Half Ld	Volts In/Out	Plug/Receptacles
S2K1000	1000/600	5/16	120/120	5-15P/(6) 5-15R
S2K350	350/210	8/24	120/120	5-15P/(6) 5-15R
S2K500	500/300	8/24	120/120	5-15P/(6) 5-15R
S2K650	650/390	5/16	120/120	5-15P/(6) 5-15R

S3K Series Line-Interactive UPS
Line interactive technology with automatic voltage regulation. Sine wave output. 50/60Hz rated. EMR/RFI filtering to FCC, Part 15 and EN50091. Rack (2U)/Tower design includes rack mounting hardware and tower stand. Network interface capability for future upgrading. User changeable batteries (hot swap). 120 Volt models are cULus Listed. 230 Volt models are TUV and CE marked. Two year warranty.

Part #	(VA/W)	Typ. Runtime Full/Half Ld	Volts In/Out	Plug/Receptacles
S3K1000	1000/750	5/12	120/120	5-15P/ (8) 5-20R
S3K1600	1440/1200	3/10	120/120	5-15p/(6)5-15r
S3K700	700/480	5/14	120/120	5-15p/(4)5-15r

S3K2U Rack/Tower Series Line-Interactive UPS
Data-Line protection for telephone or networks. Line interactive, Automatic Voltage Regulation (AVR) Topology. Sinewave output. Advanced microprocessor design improves reliability. Remote Power Off (RPO) function. USB communication ports. SNMP capable with optional card. Dry-Contact relay outputs, available option. MultiLink Power Management software. Two year warranty.

Part #	(VA/W)	Typ. Runtime (Min) Full/Half Load	Volts In/Out	Plug/Receptacles
S3K2U1000	1000/750	11/26	120/120	5-15P/ (8) 5-15R
S3K2U1440	1440/1080	5/16	120/120	5-15P/ (8) 15-15R
S3K2U2200	2200/1650	5/16	120/120	L5-30P/ (6)5-15R (2) 5-20R

SDU Off-Line DIN Rail UPS Series
Lightweight, compact industrial design. Wide operation temperature range (0-50°C). Cold start capability. Phone/dataline surge protection. Software and cable included for easy installation. Simulated sinewave output. RS232 Communication Port. USB Communication Port, Form C Dry Contact Relay and Panel/Wall mounting brackets optional. Two-year warranty. 120V models are UL1788 cRUus recognized for industrial applications without derating. 230V models are CE marked. Input/output connection: Hardwires IP20 Touch proof screw terminals - Wire range 10-24AWG. Dimensions (HxWxD) is 4.88 x 11.1 x 4.55 inches.

 SOLA/HEVI-DUTY

SDU Off-Line DIN Rail UPS Series
(cont.)

Part #	Capacity VA/Watts	Typ. Runtime Half/Full Load	Volts 50/60Hz	Wght (lbs)
SDU500	500/300	16/4	120	10.7
SDU850	850/510	8/2	120	11.4
SDU500-5	500/300	16/4	230	11.5
SDU850-5	850/510	8/2	230	11.9

SDU Accessories

Part #	Description
RELAYCARD-SDU	Dry contact I/O relay box, IP20 touch proof screw terminals, wire size range 12-22 AWG (IEC 2.5mm); N.O./N.C. form "C" contact. Relay contact signal for "On Battery"; "Low Battery" and "UPS Shutdown"
UPSMON-USB	RS232 to USB adapter cable
SDU-PMBRK	Mounting brackets to secure UPS to wall, back of panel or enclosure

4K2U Industrial Online UPS Series
Hardwire capability allows for permanent installation. Two step battery recharge extends battery life. Integral sealed, non-spillable batteries for safe ground or air transportation. Automatic restart minimizes user intervention. Easy-to-connect add on batteries for extended runtimes. Rackmount or stand-alone tower mounting for 700-3000 VA units. Integral dynamic bypass reduces shutdowns. Input and output noise suppression. Factory start-up included for 10 KVA models. Small 2U height maximizes available space. PWM inverter reduces output voltage distortion. Hot swappable, user replaceable battery. Automatic and manual battery test. RS232 communication port easily interfaces with the PC. 700-3000 VA units are field configurable with a PC as a frequency converter (bypass will be disabled). Compatible with most standby generators. Two year limited warranty. $25,000 UPS Power Protection Promise. *Full/half load (in minutes).

Part #	Capacity (VA/W)	Typical Runtime (min.)*	Input Plug/Output Recept.
S4K2U1000	1000/700	11/25	5-15P/(4)5-15R
S4K2U1500	1500/1050	7/20	5-15P/(4)5-15R
S4K2U2000	2000/1400	6/14	5-20P/(4)5-20R (15/20 AMP TYPE)
S4K2U3000	3000/2100	5/16	L5-30P/(4)5-20R (15/20 AMP TYPE)
S4K2U700	700/490	17/44	5-15P/(4)5-15R

 CABLES UNLIMITED

Utility Series UPS
Ideal units for entry-level computer systems. Not only will these dependable and affordable units guard against surges, spikes, sags and brownouts, but also protect your computer system and valuable data during a power outage.

Part #	Description
UPS-425UP	425VA, 230W
UPS-500UR	500VA, 275W, 1U Rackmount
UPS-625UP	625VA, 340W
UPS-700UR	700VA, 360W 1U Rackmount
UPS-825UP	825VA, 450W
UPS-1200UP	1200VA, 670W

Professional Series UPS

Designed to protect corporate and departmental servers, critical broadband network equipment, computer workstations, as well as today's power-hungry multi-media computer systems. Occupying only 2U of valuable rack space, the Professional Rack Mount series packs more VA capacity into smaller cabinets. Featuring Auto Voltage Regulation w/ Pure Sine Wave Output technology.

Part #	Description
UPS-1500PR	1500VA, 1000W
UPS-2200PR	2200VA, 1500W
UPS-3000PR	3000VA, 2200W

Uninterruptible Power Supplies

UPS-525SL

Ideal unit for mid-level computer systems. It has a battery run time of 13 to 35 minutes. PowerPanel™ power management software is included. This unit not only guards against surges, spikes, sags, brownouts and other power abnormalities, but also protects your computer system and valuable data during a power outage.

Part # UPS-525SL

UPS-700AVR

Battery runtime from 20 to 45 minutes. Automatic voltage regulation controls over-voltages, blackouts and brownouts. All outlets are surge-protected at 825 joules. PowerPanel Plus™ software saves you open files and automatically shuts down your computer when power is lost. Internet ready with 2-line phone/fax/modem protection. $175,000 Connected equipment warranty. Voltage is 700VA, 420W.

Part # UPS-700AVR

UPS-825AVR

Protect your computer and data from power outtages and spikes. All outlets are protected from surges as well as phone, fax and modem. Monitoring and shutdown software is included. USB and Serial interface compatibility (USB to Serial adapter is included). Battery run time of 25 to 60 minutes. $200,000 Connected equipment warranty. Voltage is 825VA, 410W.

Part # UPS-825AVR

UPS-725SL

Battery run-times from 20-65 minutes. PowerPanel™ software included in the box. Compact design with extended outlets to accommodate transformer block adapters. All outlets are surge-protected. Internet-ready with phone/fax/ modem protection. $100,000 Connected equipment warranty.

Part # UPS-725SL

UPS-1500AVR-RM

Battery run-times from 65 to 135 minutes. Innovative design allows rack-mount or stand-up usage. Automatic voltage regulation controls over-voltages, blackouts and brownouts. All outlets are surge-protected at 1800 joules. PowerPanel Plus™ software saves your open files and automatically shuts down your computer when power is lost. $500, 000 Connected equipment warranty. Contains Hot-swappable battery pack with four 7AH batteries for extended run-times. Voltage is 1500VA, 900W rackmount.

Part # UPS-1500AVR-RM

Uninterruptible Power Supplies
(cont.)

UPS-425SL

Battery Run-times from 6 to 22 minutes. Compact design with extended outlets to accommodate transformer block adapters. $35,000 Connected Equipment Warranty. Internet-ready with phone / fax / modem protection. 425va, 230w.

Part # UPS-425SL

UPS-685AVR

Battery run times from 16 to 70 minutes. Compact unit with transformer spaced outlets. All 8 outlets offer surge protection. 4 Transformer spaced outlets. Phone / Fax / Modem. $250,000 Connected Equipment Warranty. PowerPanel Personal Edition software included. USB and Serial connectivity. 3 year warranty. 685VA, 390W.

Part # UPS-685AVR

UPS-900AVR

Battery run times from 30 to 65 minutes. Compact unit with transformer spaced outlets. All 8 outlets offer surge protection. 4 Transformer spaced outlets. Phone / Fax / Modem / Network /Coax / Cable / DSS protection. $125,000 Connected Equipment Warranty. PowerPanel Personal Edition software included. USB and Serial connectivity. 3 year warranty. 900VA, 560W.

Part # UPS-900AVR

UPS-1200AVR

Battery run times from 42 to 145 minutes. Compact unit with transformer spaced outlets. All 8 outlets offer surge protection. 1 Transformer spaced outlets. Phone / Fax / Modem / Network /Coax / Cable / DSS protection. $375,000 Connected Equipment Warranty. PowerPanel PowerPanel Personal Edition software included. USB and Serial connectivity. 3 year warranty. 1200VA, 720W.

Part # UPS-1200AVR

Lev-UPS™ Pro Series

Line interactive topology. Lev-WARE power monitoring and UPS control software. Lev-CON™ Automatic Voltage Regulation. AC and dataline surge protection. Dry-relay-contact signaling. Microprocessor-controlled operation. Energy-saving "Sleep" mode. "Cold Start" DC power-up. 50/60Hz frequency auto-sensing. Advanced battery management. Auto self-test mode. Overload and short-circuit protection. User-replaceable batteries - "Hot Swappable" on larger models. LED indicators and programmable audible alarms. Site wiring fault indicator. UL 1778 & cUL Listed. FCC Compliant. ISO 9001 Certified. 2 Year product warranty.

Part #	Description	Color
U0425-AKP	Line Interactive Tower, Simulated Sine Wave, 425VA, 2-Outlets, all outlets backed-up and surge protected, Software	Dark Gray
U0625-AKP	Line Interactive Tower, Simulated Sine Wave, 625VA, 2-Outlets, all outlets backed-up and surge protected, Software	Dark Gray
U1500-AKP	Line Interactive Tower, Simulated Sine Wave, 1500VA, 5 Outlets with 4 outlets backed-up and 5 outlets surge protected, Software	Beige
U1000-AKP	Line Interactive Tower, Simulated Sine Wave, 1000VA, 5-Outlets with 4 outlets back-up and 5 outlets surge protected, Software	Beige
U2200-AKP	Line Interactive Tower, Simulated Sine Wave, 2200VA, 6 Outlets, all outlets backed-up and surge protected, Software	Beige

Lev-UPS™ On-Line Series Uninterruptible Power Supplies

Designed for applications that need maximum protection in the 700VA - 3000VA range. With on-line conversion toplogy providing non-stop, clean sine wave power. Available in space saving tower or rack-mount designs.

LEV-UPS™ Sine and On-Line Series UPS - Tower

Part #	Description	Output Capacity	No. Outlets	Typ. Back-Up Full/Half Load
U1000-0SK	Line Interactive, Pure Sine Wave	700W/1000VA	4	3 min / 10 min
U1500-0SK	Line Interactive, Pure Sine Wave	1050W/1500VA	6	3 min / 8 min
U3000-0SK	Line Interactive, Pure Sine Wave	2100W/3000VA	6	6 min / 19 min
U0700-VNL	On-Line, Pure Sine Wave	490W/700VA	6	7 min / 15 min
U1000-VNL	On-Line, Pure Sine Wave	700W/1000VA	6	7 min / 15 min
U2000-VNL	On-Line, Pure Sine Wave	1400W/2000VA	6	7 min / 15 min
U3000-VNL	On-Line, Pure Sine Wave	2100W/3000VA	6	6 min / 15 min

Lev-UPS™ On-Line Series Uninterruptible Power Supplies (cont.)

LEV-UPS™ On-Line and Sine Series UPS - RackMount

Part #	Description	Output Capacity	No. Outlets	Typ. Back-Up Full/Half Load
U0800-SRM	Line Interactive, Pure Sine Wave, 2U	560W/800VA	4	5 min / 14 min
U1500-SRM	Line Interactive, Pure Sine Wave, 2U	1050W/1500VA	4	3 min / 8 min
U3000-SRM	Line Interactive, Pure Sine Wave, 2U	2100W/3000VA	6	6 min / 19 min
U0700-VRM	On-Line, Pure Sine Wave, 2U	490W/700VA	6	7 min / 15 min
U1000-VRM	On-Line, Pure Sine Wave, 2U	700W/1000VA	6	7 min / 15 min
U2000-VRM	On-Line, Pure Sine Wave, 2U, Hardwired	1400W/2000VA	6	7 min / 15 min
U3000-VRM	On-Line, Pure Sine Wave, 2U, Hardwired	2100W/3000VA	6	6 min / 15 min

Uninterruptible Power Supplies

Line Interactive UPS

Advanced protection for PC and Mac systems against power outages, sags, surges and line noise. Built-in microprocessor maintains proper charge, provides consistent power output and helps extend battery life. Automatic voltage regulation (AVR), cold start capability and diagnostics. 480 Joules telephone, fax and network surge protection.

Part #	Description	Avail.	Outlets	Times	Communications Port	Telephone/Fax/Network Ports
168120	500 VA / 300 W	120V (NEMA) and 220V (IEC)	3 NEMA (120V), 3 back-up+surge only; 2 IEC (220V), 2 backup+surge	backup, 8-15min. typical, recharge, 8hrs. typical (12 hrs. max.), transfer time: 4ms typical (10 ms max.)	RS232 (120V); RS232 (220V)	RJ-11/RJ-45 (1 in/ 1out), surge protected
168175	1000 VA / 600 W	120V (NEMA) and 220V (IEC)	5 NEMA (120V), 4 back-up+surge/1 surge only; 3 IEC (220V), 3 backup+surge	backup, 5-10min. typical; recharge, 8 hrs. typical (12 hrs. max); transfer 4-6 ms typical (10 ms max)	RS232 (120V); RS232 (220V)	RJ-11/RJ-45 (1 in / 1 out), surge protected

Line Interactive UPS

Advanced protection for PC and Mac systems against power outages, sags, surges and line noise. Built-in microprocessor maintains proper charge and provides diagnostics to help extend battery life. Cold start capability provides temporary battery backup during power disruptions. 220 Joules surge protection.

Part #	Description	Avail.	Outlets	Times	Nom. V
168212	600 VA / 300 W	120 V (NEMA and 220 V (IEC)	6 NEMA (120V), 3 backup+surge/3 surge only; 3 IEC (220V), 3 backup+surge	backup, 2-3 min. at full load; recharge, 8hrs. typical (12hrs. max); transfer: 8 ms typical (10 ms max)	100V/110V/120V(220V /230V/240V); output, 120V(230V)
168229	1000 VA / 500 W	120V (NEMA) and 220V (IEC)	6 NEMA (120V), 3 backup+surge/3 surge only; 6 IEC (220V), 3 backup+surge/3 surge only	backup, 3-5 min. at full load; recharge, 8 hrs. typical (12 hrs. max); transfer: 4-6 ms typical (10 ms max)	input, 100V/110V/120V(220V /230V/240V); output, 120V (230V)

MANHATTAN
Bringing Computers To Life

Uninterruptible Power Supplies
(cont.)

Line Interactive UPS
Advanced protection against power outages, sags, surges and line noise. RISC-based microprocessor maintains proper charge, provides consistent power output and helps extend battery life. Built-in expansion slot for optional SNMP card. Automatic voltage regulation (AVR), cold start capability and diagnostics. 1120 Joules telephone/fax and network surge protec-

Part #	Description	Avail.	Outlets	Times	Communication Ports	Telephone/Fax/Network Ports
168205	2000 VA / 1400 W, Rackmount	120V (NEMA) and 220V (IEC)	8 NEMA (120V), 6 back-up+surge only/2 surge only; 7 IEC (220V), 6 back-up + surge/ 1 surge only / 1 Schuko surge only	back up time, 9.6min. (full load), 23.5 min. (half load); recharge, 8 hrs. typical (10hrs. max); transfer time: 4-8 ms typical (10 ms max.)	RJ-45 (USB/RS232 interface), Emergency Power-Off (EPO)	RJ-11/RJ-45 ports (1 in/ 1 out), surge protected

Power - *Surge Protection, Power Strips*

TRIPP LITE

Network Surge Suppressor
Protects network equipment against lightning and surge damage on the data communications lines. Up to $100,000 Ultimate Lifetime Insurance guarantees your protection for life, when used in conjunction with most Tripp Lite UPS systems or surge suppressors. Application is 100 and 10Base-T, Token-Ring, AS400/SYS3x, RS422 protector (Wires 1 - 8) for NICs, terminals, hubs, MAUs, etc. Peak Pulse Clamping voltage is 7.5V. Connector is RJ45 (Male/Female).

Part # DNET1

Isolation Transformer
Offers complete line isolation, continuous noise filtering and enhanced common mode surge suppression. Internal low impedance isolation transformer component with Faraday Shield offers 100% isolation from the input AC line. Secondary neutral to ground bonding eliminates common mode noise. Removes EMI/RFI noise, utility switching transients, background spikes generated by other on-site loads and utility or lightning related surge conditions. Active transformer filtering with no wearable parts is uniquely able to reduce surges in the worst of power environments to harmless levels.

Part #	Output Watts	AC Receptacles	HxWxD (in.)
IS250	250	2 NEMA 5-15R	4.5 x 4.75 x 7.75
IS500	500	4 NEMA 5-15R	5.75 x 6.25 x 8.5
IS1000	1000	4 NEMA 5-15R	7.25 x 7.25 x 10.5

Medical Grade - from 250 thru 1800 watts. Ideal for point of sale applications and telecom where an isolated ground is essential. These units provide excellent noise rejection, especially at low frequencies. Units are 120VAC/ 60 hz. UL60601-1.

Part #	Output Watts	AC Receptacles	HxWxD (in.)
IS250HG	250	2 NEMA5-15RHG	4.5 x 4.75 x 7.75
IS500HG	500	4 NEMA5-15RHG	5.75 x 6.25 x 9.25
IS1000HG	1000	4 NEMA5-15RHG	7.75 x 7.25 x 10.5
IS1800HG	1800	6 NEMA5-15RHG	7.75 x 8.25 x 12.25

Line Conditioners - 120V Standard
600 through 2400 watt, protect connected equipment from over/under voltage conditions from 87 volts through 140VAC. Six feet line cord and 4 or 6 outlets for connected equipment.

Part #	Outputs Watts	AC Receptacles	Size
LS604WM	600	4 NEMA5-15R	4 x 5 x 5.75
LS606M	600	6 NEMA5-15R	5.5 x 4.75 x 4.75

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Line Conditioners - 120V Standard
(cont.)

Part #	Outputs Watts	AC Receptacles	Size
LC1200	1200	4 NEMA5-15R	7.25 x 6 x 7
LC1800	1800	6 NEMA5-15R	7.25 x 6 x 7
LC2400	2400	4 NEMA5-15R 2 NEMA5-20R	7.25 x 6 x 7

Protect It! Surge Suppressors
Designed to offer complete protection for any piece of equipment. Protection options include utility AC, modem/fax, coax and/or data line connections to safeguard every pathway. Up to 2518 joules of surge absorption power.

Part #	Outlets	Cord Length	Joule	Fax/Modem	Coax
STRIKER	7	6	750	-	-
SUPER6TEL	7	6	1270	1-line	-
SUPER6TEL12	7	12	1270	1-line	-
SUPER7	7	7	2350	-	-
SUPER7COAX	7	7	2350	-	1 set
SUPER7TEL	7	7	2470	1-line	-
SUPER7TEL15	7	15	2720	1-line	-
TLP602	6	2	250	-	-
TLP604	6	4	720	-	-
TLP604TEL	6	4	870	1-line	-
TLP712	7	12	1000	-	-
TLP808	8	8	1900	-	-
TLP808TEL	8	8	2820	1-line in/2 jacks out	-
TLP808TELTV	8	8	3500	1-line in/2 jacks out	1 set
TLP810NET	8	10	3690	2-line	1 set
TLP810SAT	8	10	3570	1-line	2 sets
TRAVELER	2	Direct plug-in	1050	1-line	-
TLP606	6	6	750	-	-
TLP1008TEL	10	8	2395	1-line	-
TLP1008TELTV	10	8	3345	1-line	1 pair

Rackmount Surge Suppressor Strips

For standard 19" rack mounting. 1U.
Dimensions: 1.75 x 19 x 3.75 (H x W x D). with mounting hardware. Cord length: 15'. Illuminated On/off switch. Includes locking switch safety cover. Heavy Duty black metal housing. Circuit breaker. Adjustable mounting hardware (rack/bench/wall/floor). 120VAC 508/60Hz.

Economy Surge Suppressor

Part #	Outlets	Joules	Circuit Breaker
DRS-1215	12 (NEMA5-15R, 6 front, 6 rear)	1050	15A

Premium Surge Suppressors

Part #	Outlets	Joules	Circuit Breaker
IBAR12	12 (NEMA5-15R, 2 front, 10 rear)	1280	15A
IBAR12/20T	12 (NEMA5-15R, 2 front, 10 rear)	1280	20A
IBAR12/20ULTRA	12 (NEMA5-15R, 2 front, 10 rear)	1280	20A
ISOBAR12ULTRA	12 (NEMA5-15R, 2 front, 10 rear)	1280	15A

ISOBAR Premium Surge Suppressors

Direct Plug-In Models

Smaller capacity (2 outlets) to protect single pieces of equipment such as fax machines and copiers. One isolated filter bank. Surge energy rating is 600 joules. Surge current rating is 48,000 amps. HxWxD is 4 x 2.5 x 2.5 inches.

Part #	AC Recept.	Add'tl Interf. Type	Diag. LEDs	Housing
ISOBLOK2-0	2	-	1	Plastic
ULTRABLOK428	2	-	3	Metal
ULTRACOPY	2 (20-amp)	-	3	Metal
ULTRAFAX	2	1 line tel/modem	3	Metal

Isobar Models

Includes multi-component surge protection, tough metal housing, Isolated Filter Banks, sine wave tracking, 90° plugs and up to $50,000 Ultimate Lifetime Insurance. Widely spaced outlets accommodate multiple transformer blocks without covering other outlets. ULTRA models feature diagnostic LEDs.

Part #	AC Recept.	Isolated Filter Banks	Surge Energy Rating (Joules)	HxWxD (in.)	Surge Current Rating (Amps)
ISOBAR2-6	2	1	600	2.5 x 5 x 3.5	48,000
ISOBAR4ULTRA	4	2	2200	2.5 x 6 x 3.5	85,000
ISOBAR6ULTRA	6	3	2350	2.5 x 7 x 3.5	97,000
ISOBAR8ULTRA	8	4	2350	2.5 x 9 x 3.5	97,000

Isotel Tel/Modem Models

Feature high-speed sidactors to provide superior phone-line protection. Sidactors suppress surges faster than MOVs, before damaging voltage builds. Sidactors feature extremely low capacitance and won't affect the speed of vital communications. All metal housing. Surge current rating is 92,000 amps.

Part #	AC Recept.	Isolated Filter Banks	Surge Energy Rating (Joules)	Inter. Type	HxWxD (in.)
ISOTEL4ULTRA	4	2	2700	1 line tel/modem	2.5x6x3.5

ISOBAR Premium Surge Suppressors *(cont.)*

Isotel Tel/Modem Models

Part #	AC Recept.	Isolated Filter Banks	Surge Energy Rating (Joules)	Inter. Type	HxWxD (in.)
ISOTEL6ULTRA	6	3	2850	2 line tel/modem	2.5x7x3.5
ISOTEL8ULTRA	8	4	2850	1 line tel/modem	2.5x9x3.5

Power Strips

Provide convenient multiple outlets wherever they're needed. 1U rackmount models mount horizontally in a standard 19 inch rack; all other models can be permanently mounted along rails or any other rack, wall or work surface to conserve space. Hardwire models are available which can be connected directly to your AC wiring for permanent installation. All models feature all-metal cases.

Hardwire Models

Electrical rating is 2400 watts (20 amps). AC NEMA type is 5-15/20R. Power cord length, type and input plug NEMA type is hardwire.

Part #	Case Length	No. Receptacles
PS3612-20HW	36 in./3 ft.	12
PS7224-20HW	72 in./6 ft.	24

Standard Models

Electrical rating is 1800 watts (15 amps) except PS7224-20 and PS7224-20T is 2400 watts (20 amp). AC NEMA type is 5-15R except PS7224-20 and PS7224-20T is 5-15/20R. Power cord length is 15 feet. Power Cord type is 14/3 SJT except PS7224-20 and PS7224-20T is 12/3 SJT. Input plug NEMA type is 5-15P except PS7224-20 is 5-20P and PS7224-20T is L5-20P (twist lock).

Part #	Case Length	No. Receptacles
PS3612	36 in./2 ft.	12
PS4816	48 in./4 ft.	16
PS6020	60 in./5 ft.	20
PS7224	72 in./6 ft.	24
PS7224-20	72 in./6 ft.	24
PS7224-20T	72 in./6 ft.	24
PS2408	24 in.	8

Metal-Duplex Series Surge and Noise Suppression

Waber's metal duplex series offer high-endurance computer system surge protection. They also provide a combination of computer-grade protection and long-lasting durability ideal for heavy-duty needs.

Seamless steel case with baked-on finish. Circuit breaker protection and has a switch. Mounting is keyhole slots. UL. Maximum surge rating is 6,000V. Maximum surge amperage is 5,000A-36,000A. Actual clamping voltage is 330-660. EMI/RFI reduction: Frequency range is 150KHZ-1000MHZ, maximum reduction is 35db / 60db. Joule rating is 210 (DG315-SA, DG415S) 345 (EP6S, EP6S-15) 450 (DG206). Number of outlets is six. Electrical rating is 120VAC/60Hz/15A.

Part #	Dim. (L x W x H) inch	Cord Lgth. ft.	Color
DG206	12.5 x 2.5 x 1.5	6	Cool grey

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Metal-Duplex Series Surge and Noise Suppression *(cont.)*

Seamless steel case with baked-on finish. Circuit breaker protection. Mounting is keyhole slots. UL (All models). Cord length is 6 feet. Color is beige. 450 Joules.

Part #	Electrical Rating	Dim. (L x W x H) inch	Switch
PM6NS	120VAC/60Hz/15A	12.5 x 2.5 x 1.5	Y
PM6SN1	125VAC/60Hz/15A	12.5 x 2.5 x 1.5	Y

Seamless steel case with baked-on finish. Circuit breaker protection and has a switch. Mounting is keyhole slots. UL. Joule rating is 450. Electrical rating is 120VAC/60Hz/15A. Cord length is 6 feet.

Part #	No. of Outlets	Dim. (L x W x H) inch
DG115-SI	6	12.5 x 2.5 x 1.5

Commercial/Industrial Grade Power Outlet Strips

Features rugged all-metal housing, 15 amp resettable circuit breaker and keyhole slot mounting with flanges. Electrical rating 120VAC, 50/60Hz, 1800W (15A). UL Listed.

10 Outlets

Part #	Outlets	Outlet Centers in.	Cord Length	On/Off Switch Locking Safety Cvr
UL800CB-15	10	Tandem	15	Yes

3 to 5 Outlets

Dimensions (L xWxD) 7.38 x 2.5 x 1.5.

Part #	Outlets	Outlet Centers in.	Cord Length	On/Off Switch Locking Safety Cvr
3SP	3	1.75	6	Yes
UL603CB-6	4	1.25	6	Yes
602	5	1.188	6	No
602-15	5	1.188	15	No

6 Outlets - 20A

Features 20A receptacles and plug. electrical Rating 120VAC, 50/60Hz, 2400W (20A). Dimensions (LxWxD) 12.5 x 2.5 x 1.5.

Part #	Outlets	Outlet Centers in.	Cord Length	On/Off Switch Locking Safety Cvr
UL620-15	6	1.625	15	Yes

6 Outlets

Dimensions (LxWxD) 12.5 x 2.5 x 1.5.

Part #	Outlets	Outlet Centers in.	Cord Length	On/Off Switch Locking Safety Cvr
6SP	6	1.625	6	Yes
UL24CB-15	6	1.625	15	Yes

6 Outlets - Right Angle

Right-angled outlets to accept transformer blocks without covering other outlets. Dimensions (LxWxD) 12.5 x 2.5 x 1.5.

Part #	Outlets	Outlet Centers in.	Cord Length	On/Off Switch Locking Safety Cvr
UL24RA-15	6	1.625	15	Yes

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Commercial/Industrial Grade Power Outlet Strips *(cont.)*

9 Outlets

Dimensions (LxWxD) 12.5 x 2.5 x 1.5.

Part #	Outlets	Outlet Centers in.	Cord Length	On/Off Switch Locking Safety Cvr
UL17CB-15	9	1.125	15	Yes

OfficeGrade - Premium Power Outlet Strips

4 and 6 Outlets

Features rugged all-metal housing, 15 amp resettable circuit breaker, and keyhole slot mounting. Electrical Rating 120VAC, 50/60Hz, 1800W (15A). UL Listed. On/Off switch.

Part #	Outlets	Outlet Centers in.	Cord Length	Dimensions (L x W x D)
4SPDX	4	1.52	6	7.38 x 2.5 x 1.5
6SPDX	6	1.52	6	12.5 x 2.5 x 1.5
6SPDX-15	6	1.505	15	12.5 x 2.5 x 1.5

6 Outlets

Features 15 amp circuit breaker, and keyhole slot mounting, Electrical Rating 120VAC, 50/60Hz, 1800W (15A). UL Listed. On/Off switch.

Part #	Outlets	Case	Cord Length	Dimensions (L x W x D)
6NX6	6	Metal	6'	7.38 x 2.5 x 1.5
PS6	6	Plastic	4'	12.5 x 2.5 x 1.5

With Hospital Grade Plug and Receptacles - UL1363

Not for use where NEC requires hospital - grade receptacles. Metal case.

Part #	Outlets	Cord Length	Dimensions (L x W x D)
PS-415-HG	4	15'	7.38 x 2.5 x 1.5
PS-606-HG	6	6'	12.5 x 2.5 x 1.5
PS-615-HG	6	15'	12.5 x 2.5 x 1.5

With Hospital Grade Plug and Receptacle

UL60601-1

Part #	Dimensions	Outlets	Cord Length
PS-415-HGULTRA	12.5 x 2.5 x 1.5	4	15'

SOLA/ HEVI-DUTY

CVS Hardwired Series - Constant Voltage Transformer, 60 Hz

Superior voltage regulation. Harmonic filtering. Hardwired. Acts as a Step-up/Step-down transformer. Galvanic isolation. Twenty-five year typical Mean Time Before Failure. No maintenance required.

Part #	VA	Volt Input	Volt Output	H x W x D (in)
23-13-030-2	30	120	120	7 x 4 x 5
23-13-060-2	60	120	120	7 x 4 x 5
23-22-112-2	120	120, 240	120	8 x 4 x 5
23-23-125-8	250	120, 240, 480	120	11 x 6 x 8
23-23-150-8	500	120, 208, 240, 480	120, 240	13 x 9 x 7
23-23-210-8	1000	120, 208, 240, 480	120, 240	17 x 9 x 7
23-23-220-8	2000	120, 208, 240, 480	120, 240	18 x 13 x 10
23-23-230-8	3000	120, 208, 240, 480	120, 240	19 x 13 x 10

SOLA/HEVI-DUTY

CVS Hardwired Series - Constant Voltage Transformer, 60 Hz *(cont.)*

Part #	VA	Volt Input	Volt Output	H x W x D (in)
23-23-250-8	5000	120, 208, 240, 480	120, 240	28 x 13 x 10
23-28-275-6	7500	240, 480	120, 240	27 x 25 x 9

MCR Portable Series - Power Line Conditioning with Voltage Regulation - Group A - 60 Hz

Noise attenuation - 120 dB common mode and 60 dB transverse mode. Surge suppression tested to ANSI/IEEE C63.41 Class A & B Waveform lt 10 V let-through typical. Harmonic filtering. Galvanic isolation. Point-of-use protection - cord and plug connected. Twenty-five year typical MTBF. No maintenance required.

Part #	VA	Volt I/O	HxWxD (in)	Recept. No. NEMA Type	Plug (NEMA)
63-13-070-6	70	120	6x7x9	(4) 5-15R	5-15P
63-13-115-6	150	120	6x7x9	(4) 5-15R	5-15P
63-13-125-6	250	120	6x7x9	(4) 5-15R	5-15P
63-13-150-6	500	120	9x9x16	(4) 5-15R	5-15P
63-13-175-6	750	120	9x9x16	(4) 5-15R	5-15P
63-13-210-6	1000	120	9x9x16	(4) 5-15R	5-15P
63-13-215-6	1500	120	11x11x17	(6) 5-15R	5-20P
63-13-220-6	2000	120	11x11x17	(4) 5-15R, (1) L5-30R	L5-30P
63-13-230-6	3000	120	11x11x17	(4) 5-15R, (1) L5-30R	5-50P

STV25K DIN Rail Series Surge Suppressors

The STV25K DIN Rail Series surge suppressors provide point-of-use protection against damaging transients at the dedicated equipment level. Devices provide 50,000 amps of surge protection, sine wave tracking, LED status indication and form "C" dry contacts. Provides protection on all modes or electrical paths and comes with a standard ten year product warranty. UL recognized to Standard 1449, 2nd Edition. Compact narrow design for minimized panel space requirements.

Part #	Input VA	Type
STV25K-10S	120V	Single Phase
STV25K-24S	240V	Single Phase

CABLES UNLIMITED

Power Strips

Economy Surge Protectors

Part #	Description
SRG-2000	Surge, 6-outlet, plastic, 1 MOV, 4' cord
SRG-2100	Surge, 6-outlet, metal, 1 MOV, 6' cord
SRG-2200	Surge, 6-outlet with modem, 3 MOV, EMI/RFI, 6' cord
SRG-2300	Surge, 6-outlet, plastic, 3 MOV, 4' cord
SRG-2350	Surge, 6-outlet, plastic, 3 MOV, 15' cord

Power Center 7-Outlet with Modem

Part # SRG-1200

Power Centers

Part #	Description
SRG-1000	Surge, power center, 5-outlet, under monitor, 1 MOV
SRG-1100	Surge, power center, 5-outlet plus fax/modem, 3 MOV, 1 MOV

CABLES UNLIMITED

Power Strip Liberator

Get the full use of your power strips and UPS outlets with this premium cable. Just plug these cables between those bulky power adapter and an unused outlet.

Part #	Description
PWR-PSLIB	Liberator Power Cord, 1' cable
PWR-PSLIB-2	Liberator II Power Strip, Y-Cable, 1' cable
PWR-PSLIB-3	Liberator Plus, Pass-Through, 1' cable

Computer/Audio/Video Surge Protector

Surge protection of 2200 joules. DSS/Cable modem protection (Coax with gold connections). Eight feet of heavy duty power cord with right angle plug. $100,000 connected equipment warranty. Eight surge protected outlets and 4 transformer outlet. High performance EMI/RFI noise filter. Sliding child-safe outlet covers. Built-in 15 amp circuit breaker. LED surge and ground indicator lights.

Part # SRG-880

Eight Outlet with RJ11, RJ45 and Coax

Surge protection of 3600 joules. $275,000 connected equipment warranty. Four large transformer spaced outlets. Built in automatic shutdown feature. Communication protection ports for phone/fax/modem lines. Gold coaxial cable protection ports.

Part # SRG-895

Home Office/Personal Computer Surge Protector

Surge protection of 1080 joules. Internet/phone/fax/modem protection (1-in/2-out RJ-11). Six feet of heavy duty power cord. $50,000 connected equipment warranty. Seven surge protected outlets and one transformer outlet. Built-in 15 amp circuit breaker. LED surge active indicator light.

Part # SRG-750

Six Outlet Wall Tap, 2 MOV with LED

Protects from damage to power spikes with this ultra compact 6-outlet surge protector. Featuring MOV 2 protection this surge protector is ideal for traveling. It has six surge suppressed outlets, UL Listed, durable plastic case and surge protection indicator.

Part # SRG-3000

All Purpose Electronic Surge Protector

Surge protection of 500 joules. Four feet heavy duty power cord. $20, 000 connected equipment warranty. Six surge protected outlets and one transformer outlet. Built-in 15 amp circuit breaker. LED surge active indicator light.

Part # SRG-610

Computer Broadband Network Surge Protector

Surge protection of 2200 joules. Broadband network protection. DSS/cable modem protection (Dual coax with gold connections). Internet/phone/fax/modem protection (1-in-and 2-out RJ-11). Six feet of heavy duty power cord. $200, 000 connected equipment warranty. Eight surge protected outlets and 4 transformer outlet. High performance EMI/RFI noise filter. Sliding child-safe outlet covers. Built-in 15 amp circuit breaker. LED surge and ground indicator lights.

Part # SRG-890

Computer Grade Surge Protector

Surge protection of 1500 joules. Internet/phone/fax/modem protection (RJ-11). Six feet of heavy duty power cord with right angle plug. $75,000 connected equipment warranty. Eight surge protected outlets and four transformer outlets. High performance EMI/RFI noise filter. Built-in 15 amp circuit breaker. LED surge and ground indicator lights.

Part #   SRG-850

5300 Series Six-Outlet Plug Strips

Clamping profile tightly tracks AC sine wave. Six protected outlets with ON/OFF switch. Resettable circuit breaker and internal fusing. Equipped with a 6-foot or 15-foot, 14-3 AWG power cord. Storage temperature is -35°C to 60°C. Operating temperature is -10°C to 60°C. Lifetime limited warranty. Rated 15A 120V AC.

Part #	Description	Application
5300-G15	Gray, 15' cord	Data-Sensitive Operations
5300-GS	Gray, 6' cord	Data-Sensitive Operations
5300-GSC	Gray, 6' cord	CATV Line Surge Protection
5300-GST	Gray, 6' cord	Telephone/Modem Line Protection
5300-HPS	Hospital Grade, Beige, Aluminum Enclosure, 6' Cord	Continues to supply power to load if protection is lost
5300-IPS	Beige, 6' cord	Rugged aluminum housing for use in rough environments
5300-PS	Beige, 6' cord	Data-Sensitive Operations
5300-PSC	Beige, 6' cord	CATV Line Surge Protection
5300-PST	Beige, 6' cord	Telephone/Modem Line Protection
5300-S15	Beige, 15' cord	Data-Sensitive Operations

5100 & 5200 Series Six-Outlet Plug Strips

All mode protection with clamping profile that tightly tracks AC sine wave. Six protected outlets. Resettable circuit breaker and internal fusing. Six-foot, 14-3 AWG power cord and can be wall mounted. Storage temperature is -35°C to 60°C. Operating temperature for 5100-PS and 5200-PS is 0°C to 40°C; for 5100-IPS and 5200-IPS is -10°C to 60°C. Lifetime limited downline warranty.

Part #	Description	Application	Joules
5100-G15	General Duty, Gray, 15A 120V, 15' Cord	Compatible with UPS and SPS Systems	720
5100-GS	General Duty, Gray, 15A 120V	Compatible with UPS and SPS Systems	720
5100-IPS	General Duty, Beige, 15A 120V	Rugged Aluminum Housing for Rough Environments	720
5100-IS2	General Duty, Gray, 20A 120V	Rugged Aluminum Housing for Rough Environments	720
5100-PS	General Duty, Beige, 15A 120V	Compatible with UPS and SPS Systems	720
5100-S15	General Duty, Beige, 15A 120V, 15' Cord	Compatible with UPS and SPS Systems	720
5200-G15	Heavy Duty, ON/OFF Switch, Gray, 15' Cord	For Micro Processor Based Equipment	900
5200-GS	Heavy Duty, ON/OFF Switch, Gray	For Micro Processor Based Equipment	900
5200-PS	Heavy Duty, ON/OFF Switch, Beige	For Micro Processor Based Equipment	900
5200-S15	Heavy Duty, ON/OFF Switch, Beige, 15' Cord	For Micro Processor Based Equipment	900

Four-Outlet Surge Protection Devices

Connect directly to standard NEMA 5-15 receptacles. Thermal fusing and overcurrent protection via resettable 15A breaker. Hi-frequency noise filtration. Storage temperature is -35°C to 60°C. Operating temperature is -40°C to 60°C. Lifetime limited downline warranty.

Part #	Description	Joules	Application
5100-P	Heavy Duty, Beige	720	PC's & peripherals, electronic cash registers, digital sound systems, video equipment and microwave ovens
5300-P	Max. Protection, Beige	1620	Point of sale systems, PC's and peripherals, copy machines, computer controlled office equipment and microwave ovens

5950 Series Modular Surge Protective Strips - For Residential & Commercial LAN Environments

Expandable modular design with two slots accepts a variety of inter-changeable plug-in modules to accommodate surge protection requirements as equipment changes. Easy-to-use with six standard and three transformer-pad surge protected AC outlets. Diagnostic indicators for Power protection, Polarity and Ground. Cord is 7 1/2' with convenient right-angle plug.

Part #	Protects	Color	Protection Module
5950-0PS	All electronic equipment	Beige	2-Blank
5950-0ST	Phone/fax/modem	Beige	1-Blank, 1-Telephone (1-line in, 2-line out)
5950-PSG	All electronic equipment	Gray	2-Blank
5950-SCG	CATV and DSS Coax Lines	Gray	1-Blank, 1-Coax (2-Pairs in, Out F Connectors)
5950-SSG	Phone/fax/modem and CATV or DSS Coax lines	Gray	1-Telephone (1-Line in, 2-Line out) 1-Coax (2-Pairs in, Out F Connectors)
5950-STB	Phone/fax/modem	Blue	1-Blank, 1-Telephone (1-Line in, 2-Line out)
5950-STC	Phone/fax/modem	Clear	1-Blank, 1-Telephone (1-Line in, 2-Line out)
5950-STG	Phone/fax/modem	Gray	1-Blank, 1-Telephone (1-Line in, 2-Line out)
5950-STL	Phone/fax/modem	Lime	1-Blank, 1-Telephone (1-Line in, 2-Line out)
5950-STO	Phone/fax/modem	Tangerine	1-Blank, 1-Telephone (1-Line in, 2-Line out)
5950-STP	Phone/fax/modem	Grape	1-Blank, 1-Telephone (1-Line in, 2-Line out)
5950-STS	Phone/fax/modem	Strawberry	1-Blank, 1-Telephone (1-Line in, 2-Line out)

Plug-In Modules

Interchangeable plug-in modules for use in the 5950 TVSS strip to accommodate surge protection requirements as equipment changes. Convenient removal and installation. Multiple colors to coordinate with 5950 strip. Coax and Satellite Module - Two pairs of In/Out F Connectors for Satellite and Cable TV Systems. Ethernet Module - Two RJ45 Connectors with Ground Pin for Ethernet. Coax Module - One Pair of In/Out F Connectors for Cable TV Systems. Telephone Module - One Input, Two Output Connectors for Phone/Fax/Modem, Also Acts as a Splitter. DSL/ADSL Module - One Input, Two Output Connectors for DSL/ADSL Line, Also Acts as a Splitter.

Part #	Module Type	Color
5951-0SA	Coax and Satellite Module	Beige
5951-SAC	Coax and Satellite Module	Clear
5951-SAT	Coax and Satellite Module	Gray
5952-0ET	Ethernet Module	Beige
5952-ETC	Ethernet Module	Clear
5952-ETH	Ethernet Module	Gray
5953-0PC	Coax Module	Beige
5953-PCC	Coax Module	Clear
5953-PCG	Coax Module	Gray
5954-AT4	Telephone Module	Beige
5954-CT4	Telephone Module	Clear
5954-PT4	Telephone Module	Gray
5955-0DT	DSL/ADSL Module	Beige
5955-DTC	DSL/ADSL Module	Clear
5955-DTG	DSL/ADSL Module	Gray

4950 & 5400 Series Plug Strips and Plug-Ins

Hybrid design combines surge protection circuitry with advanced noise filtration components. Optional telephone line suppressor available for modem protection. Real time diagnostics with LED indicators monitor power and protection status. Rated 15A 120V AC and 15A 125V. Lifetime limited downline warranty.

Part #	Description	Joules	Application
4950-PS	7-Outlet Strip, Beige	1140	Micro-Processor Driven Electronic Equipment
4950-PSC	7-Outlet Strip, with 2F Coax Connectors, Beige	1140	Micro-Processor Driven Electronic Equipment
4950-PST	7-Outlet Strip, with 2 RJ11 Phone Jacks, Beige	1140	Micro-Processor Driven Electronic Equipment
4950-S15	7-Outlet Strip, with 15' Cord, Beige	1140	Micro-Processor Driven Electronic Equipment
5400-TLS	5-Outlet Strip, with Telephone Line Protection	900	Under Monitor

Surge Protector For Network

2,840 joules, modem or fax protection. Coaxial cable protection - 4 jacks. 8 outlets, 1 input/2 output phone jacks. Lighted On/Off reset switch. EMI/RFI noise filter. 3 outlets for AC adapters. Resettable circuit breaker. Three-line surge protection (hot, neutral, ground). Wiring fault and protection LEDs - Red means faulty, Green means Ok. 12 ft. heavy-duty cord, right angle plug. Mounts to wall or other flat surface (Hardware not included).

Part # 570848

Surge Strips, 270 Joules

Integrated circuit breaker switch. Listed under UL 1363. 6 outlets 110 V.

Part # 309677

Surge Protector with RJ-45 Protection

DSL/Cable modem protection. Network surge protection. EMI/RFI noise filter. 6 outlets, 1 RJ-45 Network Jack. 270 Joules.

Part # 167567

Surge Protector For Business

2,720 joules, modem or fax protection. 8 Outlets, 1 input / 2 output phone jacks. Lighted On/Off reset switch. EMI/RFI noise filter. 3 Outlets for AC adapters. Resettable circuit breaker. Three-line surge protection (hot, neutral, ground). Wiring fault and protection guarantee (US & Canada only). 6 ft. heavy-duty cord. Mounts to wall or other flat surface.

Part # 570831

Surge Protector with RJ-11 Protection

Child-safe sliding cover. Full 3 line surge protection. EMI/RFI noise filter. Phone/Fax/Modem protection. Circuit breaker w/ reset feature. Listed under UL 487A,1363 and 1449. 270 Joules. 6 Outlets with RJ-11.

Part # 160001

MANHATTAN
Bringing Computers To Life

Surge Strip

Integrated circuit breaker switch. Listed under UL 1363. 6 outlets 110 V. 90 Joules.

Part # 307192

Surge Protector for Home Use

6 outlets, 1 input/1 output phone jack. 750 Joules. Modem or fax protection. Protection indicator LED. Lighted On/Off reset switch. Resettable circuit breaker. 3 line surge protection (hot, neutral, ground). Mounts to wall or other flat surface (hardware not included). Heavy duty cord, 6 ft.

Part # 570800

MODE
ELECTRONICS

AC Outlet Strips

Six outlet power distribution strip with lighted power switch, breaker and surge suppression. Durable metal case with 4' 3/16 power cord. Electrical Rating: 125VAC 15Amp..

Part # 31-060-1

6 outlet power distribution strip with lighted power switch/ breaker and surge suppression. Durable metal case with 6' cord. Outlets turned 90 degrees for AC adapters. Attractive Mode display box. Electrical Rating: 125VAC 15Amp.

Part # 31-062-1

6 outlet power distribution strip with lighted power switch/ breaker and surge suppression. Durable Plastic case with 6' cord. Outlets turned 90 degrees for AC adapters. Attractive Mode display box. Electrical Rating: 125VAC 15Amp.

Part # 31-063-1

PAN PACIFIC

Surge Protected Power Strips With Circuit Breaker

UL and CSA listed. Electrical rating is 125V, 15A, 1875 watts. Clamping voltage is 400V (500V pm 7Ps and on 5Ps). Current peak is 4000A (4500A on 5Ps). Response time is 7 ~ 12 nanoseconds. Energy absorption is 50/150 joules. Power cord is 14 AWG, UL SJT.

Fire retardant plastic cover with six grounded outlets (7 outlets on 7Ps). Reset button and 4ft. (PS-PSPP-6P) or 6ft. (PS-PSPP-6P6 & PS-PSPP-7P) power cord. Three MOV full surge protection and EMI/RFI. (PS-PSPP-7P only) Protect equipment from electrical spikes and power surges.

Part #	Description
PS-PSPP-6P	4 ft. cord
PS-PSPP-6P6	6 ft. cord
PS-PSPP-7P	7 outlet ports
PS-PSPP-6PTL	6 outlet ports

PAN PACIFIC

Surge Protected Power Strips With Circuit Breaker *(cont.)*

Six grounded outlets (5 on PS-PPAD-5P). Reset button and 6 ft. power cord. 3 MOV full surge protection, surge protected modem jacks (PS-PERM-6P/M), EMI/RFI noise filter protect equipment from electrical spikes and power surges.

Part #	Description
PS-PERM-6P/M	Enamel metal casing, modem jacks
PS-PPAD-5P	5 ports, 5 switches, individual control
PS-PSPM-6P	Enamel metal casing

Heavy duty power cords. Safety circuit breaker. Master switch. UL and cUL Listed (UL and CSA listed: PS-PSPP-8P and PS-PSPP-6PDM). 15 amp, 125 VAC, 1875 watts (120V, 1800 watts: PS-PSPP-6P10).

Part #	Description
PS-PSPP-8P	8 outlets, 3 MOV, 4 feet cord
PS-PSPP-7PD	1 extra spaced outlet for larger DC transformer, EMI/RFI noise filer, 6 outlets in 2 rows, 4 feet cord
PS-PSPP-6P10	6 outlets with 10 feet heavy duty power cord
PS-PSPP-6PSW	6 outlets with sideway port alignment, 4 feet cord
PS-PSPP-8P-N	Cat 5 high speed dataline port, 6 color-coded outlets, 2 extra spaced transformer outlets, 1 in / 2 out phone line port
PS-PSPP-6PDM	6 outlets in 2 rows, phone line surge protection, EMI/RFI noise filter, 3 MOV
PS-PSPP-5PSWM	5 outlets with sideway alignment, phone line surge protection, EMI/RFI noise filter, 3 MOV

philmore

6 Outlet Economy Surge Strip

This solidly constructed outlet strip is both UL and CUL listed and comes with a 3 foot power cord, circuit breaker and switch combo.

Part # 43-7061

6 Outlet Heavy Duty Surge Strip

This 6 outlet strip is constructed with a heavy duty plastic housing has 15' feet power cord. Separate lighted on-off switch and circuit breaker and 3 MOV's (210 joules), and EMI/RFI filtering.

Part # 43-6415

Computer Surge Protection

This series of surge protectors protects the AC line for the three modes by which a spike or surge may enter and dissipates them completely. Features: Power - 120VAC, 15 amp, 1875 watts. Cord is 6 ft, 14 AWG, 3-prong plug. Circuit breaker is 15 amps maximum. AC outlets are "U" grounded. Filters from 500 KHz to 30 MHz. Attenuation is from 10db to 35db. Maximum dissipation is 40 x 3 joules. Maximum voltage is 150 volts RMS. Maximum spike current is 4500 amps for 8 x 20 US spike surge. Maximum clamping voltage is 395 volts RMS. Clamp response time is 1 ns.

The telephone line can be as dangerous as the power line; a dangerous path for surge due to distant lightning or inductive surges. Model has modular telephone jacks for protecting the telephone line too. AC power lines and modem, fax or answering machine.

Part # PT06M

Philmore

Waldom / GC
ELECTRONICS
THE CLEAR CHOICE

Computer Surge Protection
(cont.)

Includes all of the PT06 features and also has an added circuit to protect antenna terminals for TV. Standard antenna "F" connectors are provided for simple connections; use with either an outdoor antenna or cable TV service. Will not degrade picture quality. AC power lines and TV antenna/Cable "F" connector jack.

Part # PT06V

For general purpose usage with any modem electronic equipment. Use when only the AC electric power line is a potential path for damaging surges. May be used with virtually all electronics, including computers and television. Protection includes EMI/RFI filtering as well as three mode surge protection. AC Power Line.

Part # PT06

Economy Six Outlet

Economy 6-outlet strip with 4-foot cord, plastic housing and 15 amp circuit breaker. ON-OFF switch is lighted.

Part #	Type
70-405	No surge
70-406	3 Lines surge protected
70-661	1 Line surge protected

Expander III

Duplex outlet expander AC six position power tap with full surge. Economical yet provides complete protection for all sensitive electronic equipment. The 3 MOV will provide worry-free protection. LED indicator to show that protection circuits are functioning. UL approved and rated at 15 amps, 125 VAC and 1875 watts.

Part # 70-8030

Waldom / GC
ELECTRONICS
THE CLEAR CHOICE

Surge Protection Power Strips

Electrical ratings is 125V/15A/1875W. Telephone modular jack is RJ11.

Part #	No. Outlets	Description	Cord Specs	15 amp Breaker	Max Joules
64-631	6	Metal surge strip - shop/industrial	4' - 14/3	Y	450

Six-Outlet Strip EMI/RFI Surge Suppressor

General Protection

Maximum surge dissipation is 90 joules. Clamping voltage is 330 volts. Lines protected - hot to neutral.

Part #	Cord Length	No. of Outlets
64-661	4 ft.	6
64-6610	10 ft.	6
64-6615	15 ft.	6
64-663	3 ft.	4

Maximum surge dissipation is 555 joules. Clamping voltage is 400 volts. Lines protected - hot to neutral, neutral to ground and hot to ground. Six outlets. Cord length is 4 ft.

Part # 64-667

Six-Outlet Strip EMI/RFI Surge Suppressor
(cont.)

Electrical ratings - 125V/15A/1875W. Maximum protection. Maximum surge dissipation is 357 joules. Maximum current is 4500 amps. Maximum spike voltage is 6000 volts. Clamping voltage is 330 volts. Response time is less than 1 nanosecond. Maximum surge voltage is 6000 voltage. Lines protected are hot to neutral, neutral to ground and hot to ground. Phone line surge specifications: Maximum energy dissipation is 72 joules. Clamping voltage is 395 volts. Maximum spike current is 1200 amps. EMI/RFI noise specifications: Frequency is 150 KHz - 100 MHz. Attenuation is up to 40db.

Part # 64-804

Maximum surge dissipation is 270 joules. Clamping voltage is 330 volts. Line protected - hot to neutral. Six outlets.

Part # 64-668

3-Outlet Surge and EMI/RFI Filter

Suppresses surges on all lines, hot to neutral, hot to ground, neutral to ground. Electrical ratings 15A, 125VAC, 1875W. Maximum spike is 171 joules. Maximum spike voltage is 6000 volts. Clamping spike voltage is 340 volts. Maximum spike current is 9000 amps. Clamping response time is 1 nanosecond. EMI/RFI Filter filters are normal and common mode 100 khz to 100Mhz. Attenuation is 5db to 52db, continuous duty.

Part # 64-813

Five-Outlet Strip EMI/RFI Surge Suppressor

Electrical ratings - 125V/15A/1875W. Maximum protection. Maximum surge dissipation is 200 joules. Maximum current is 4500 amps. Maximum spike voltage is 6500 volts. Clamping voltage is 400 volts. Response time is less than 1 nanosecond. Maximum surge voltage is 6500 volts. Lines protected are hot to neutral, neutral to ground and hot to ground. Coax line surge specifications: Maximum energy dissipation - 46 joules. Maximum spike current - 1200 amps. EMI/RFI noise specifications: Frequency - 100 KHz - 30 MHz. Attenuation is -5db thru -40db.

Part # 64-830

Six-Outlet Strip Power Strip

Electrical ratings - 120V/15A/1875W. Power cord - 14 AWG, UL SJT. Circuit breaker - 15 amp resettable. Plastic. 4ft.

Part # 64-807

Surge Suppressor Strips

Electrical ratings - 125V/15A/1875W. Maximum spike current is 4500 amps. Response time is less than 1 nanosecond. Maximum surge voltage is 6500 volts. Maximum surge dissipation is 240 joules. Clamping voltage is 400 volts. Lines protected - hot to neutral, neutral to ground, hot to ground. Six outlet.

Part # 64-802

Surge Protection Power Strips

Electrical ratings is 125V/15A/1875W. Telephone modular jack is RJ11.

Part #	No. Outlets	Description	Cord Specs	15 amp Breaker	Max Joules
64-669	6	PC smart surge - Computer	6' - 14/3	Y	1100
64-670	10	Home entertainment sys surge	6' - 14/3	Y	1665

EDGE

High Surge PowerVerter Plus Inverters

Harness your vehicle's battery to efficiently power office equipment on the road or power tools at a work site. Continuously supplies 120V AC power from any 12V battery or automotive DC source. (24VDC also available). Frequency control locks AC output at 60Hz for operating stability of motor loads. Includes a set of high current DC input terminals for simple, permanent installation. Highly reliable large transformer design specializes in powering motors and other inductive loads with high-current startup needs.

Part #	Volt Input DC/Output AC	Cont. Output Power (Watts)	Peak Output Power (Watts)	AC Outlets	H x W x D (inches)
PV750FC	12/120	750	1500	2	7 x 7 x 10"
PV1250FC	12/120	1250	2500	2	7 x 8.75 x 7.75
PV2000FC	12/120	2000	4000	2	7.25 x 8.5 x 16.5
PV2400FC	24/120	2400	4800	2	7.3 x 8.5 x 16.5

Ultra Compact Power Inverters

Harness your vehicle's battery to efficiently power appliances, small electronics and office equipment on the road. Continuously supplies 120V AC power to 3 AC outlets from any 12V battery. Ultra-compact, lightweight metal case design is among the smallest, most rugged inverters available. Ideal for portable electronics, office equipment, RV and mobile appliances, video game and small entertainment systems, battery chargers and more.

Part #	Volt Input DC/Output AC	Cont. Output Power (Watts)	Peak Output Power (Watts)	AC Outlets	H x W x D (inches)
PV150	12/120	150	300	1	1.75 x 3.75 x 5.75
PV375	12/120	375	600	2	2 x 4.25 x 7
PV600	12/120	600	1000	3	2.75 x 5 x 8.25
PV1000HF	12/120	1000	1500	4	4.25 x 6.25 x 15
PV1800HF	12/120	1800	2700	4	4.25 x 6.25 x 12.5
PV3000HF	12/120	3000	6000	4	4.1 x 11.1 x 14

PowerVerter APS Inverter/Charger

Three function DC-to-AC inverter with auto line-to-battery transfer and integrated charging system serves as an extended run UPS, a standalone power source or an automotive inverter. Supplies up to 2400 watts (depending on model) of continuous 120V AC power. Includes a set of high current DC input terminals for simple installation (user supplies batteries and cabling). Supports an unlimited amount of runtime with any number of user-supplied batteries connected. *User supplied batteries.

Part #	Cont. Watts	Peak Watts	Source*	Size
APS750	750	1500	12 VDC	7 X 7 X 10
APS1250	1250	2500	12 VDC	7 X 8 1/2 X 16 1/2
APS2012	2000	4000	12 VDC	7 X 8 1/2 X 16 1/2
APS1524	1500	3000	24 VDC	7 X 8 1/2 X 16 1/2
APS2424	400	4800	24 VDC	7 X 8 1/2 X 16 1/2

SCD Series, Encapsulated, Industrial DC to DC Converter

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.

Part #	Description	Output VDC
SCD30D15-DN	Dual O/P ±15V	15
SCD30S12-DN	12 V	12
SCD30S15-DN	15 V	15
SCD30S24-DN	24 V	24
SCD30S48-DN	48 V	48
SCD30S5-DN	5 V	5

SCL Series, 4 and 10 Watt CE Linears

Available in dual and triple outputs for applications with sensitive electronics and analog circuitry. 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. Encapsulated to resist environment.

4 Watt; Linear DC Power Supply; DIN Rail Mount

Part #	Description	Output V1 VDC/A	Output V2 VDC/A
SCL4D12-DN	Dual O/P ± 12V	12/0.13	-12/0.13
SCL4D15-DN	Dual O/P ± 15V	15/0.10	-15/0.10

10 Watt; Linear DC Power Supply; DIN Rail Mount

Part #	Description	Output V1 VDC/A	Output V2 VDC/A
SCL10D12-DN	Dual O/P ± 12V	12/0.35	-12/0.35
SCL10D15-DN	Dual O/P ± 15V	15/0.3	-15/0.3

SCP Series, 30 Watt; Single, Dual and Triple

Many output voltages, 3.3-48 volts; single, dual and triple. Five year warranty. DIN rail or chassis mount. Encapsulated to resist environment.

Part #	Description	Output VDC	Efficy. %
SCP30D12-DN	Dual O/P ± 12V	12/1.2	68
SCP30D15-DN	Dual O/P ± 15V	15/1.0	68
SCP30S12-DN	12V	12/2.5	75
SCP30S15-DN	15V	15/2.0	75
SCP30S24-DN	24V	24/1.3	77
SCP30S5-DN	5V	5/6.0	70
SCP30T512-DN	Triple O/P 5/12/12V	5/3.0	68
SCP30T515-DN	Triple O/P 5/15/15V	5/3.0	68

SCP-X Extreme Environment Power Supply

A rugged power supply designed for use in extreme environments. The metal case reduces costs by eliminating separate enclosures and the quick change connectors simplify connectivity for distributed I/O devices on industrial machinery. This model provides 24 Vdc output with limited power to meet Class 2 requirements.

Part # SCP-X

Power - *Power Supplies*

SOLA/HEVI-DUTY

SDN DIN Rail Series

Operation is -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 of SDN2.5-24-100 and SDN4-24-100LP. Narrow width on rail for space critical applications. Five year warranty. 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. Snap-on system for DIN Rail TS35/7.5 or TS35/15 or chassis-mounted (optional screw mounting set required). Power Factor correction, auto select 115/230 VAC, 50/60 Hz input, single phase models meet SEMI F47 Sag Immunity, Class 1, Div 2 Hazardous locations, adjustable output.

Part #	Input Voltage	Output Voltage	Output Current	H x W x D (in)
SDN10-24-100P	115/230 VAC	24-28 VDC adj.	10.0 A	4.88 x 5.39 x 4.04
SDN2.5-24-100P	115/230 VAC	24 VDC	2.5 A	4.88 x 1.97 x 1.97
SDN20-24-480C	480 VAC 3PH	24-28 VDC adj.	20.0 A	4.88 x 8.94 x 4.04
SDN30-24-480	380-480 VAC Auto Range 3PH	24-28 VDC adj.	30.0 A	4.88 x 9.72 x 4.25
SDN40-24-480	380-480 VAC Auto Range 3PH	24-28 VDC adj.	40.0 A	4.92 x 11.10 x 4.45
SDN5-24-100P	115/230 VAC	24-28 VDC adj.	5.0 A	4.88 x 2.91 x 4.04
SDN5-24-480	380-480 VAC Auto Range 3PH	24-28 VDC adj.	5.0 A	4.88 x 2.56 x 4.04
SDN10-24-480	380/480 VAC	24-28 VDC adj.	10.0 A	4.88 x 3.5 x 4.55
SDN20-24-100P	115/230 VAC	24-28 VDC adj.	20.0 A	4.88 x 6.88 x 4.55
SDN4-24-100LP	115/230 VAC	24-28 VDC adj.	3.8 A	4.88 x 2.56 x 4.04

Chassis Mount Bracket

Part # SDNPMBRK2

SBE Series Encapsulated Industrial Control Transformers

Epoxy encapsulated for protection against dust, mildew and other contaminants. 50/60 Hz models available. Copper wound. Standard power ratings from 50 through 1000 VA. 55°C Rise, 105°C insulation system. Meets or exceeds NEMA Standard ST 1 and ANSI C89.1. Integrally molded, flame retardant IEC 60707 ISO Class 1210 terminal blocks.

120 x 240 Volt Primary - 24 Volt Secondary - 60 Hz

Part #	VA	Dimensions HxWxD (inches)	Approx. Ship Wght (lbs)
E050E	50	2.72 x 3.01 x 3.99	3
E075E	75	2.96 x 3.39 x 4.36	4
E100E	100	2.96 x 3.39 x 4.61	5
E150E	150	3.89 x 4.5 x 4.48	8
E200E	200	3.89 x 4.5 x 4.79	10
E250E	250	3.89 x 4.5 x 5.21	11
E300E	300	4.53 x 5.25 x 5.09	12
E350E	350	4.53 x 5.25 x 5.53	15

SOLA/HEVI-DUTY

SBE Series Encapsulated Industrial Control Transformers *(cont.)*

120 x 240 Volt Primary - 24 Volt Secondary - 60 Hz

Part #	VA	Dimensions HxWxD (inches)	Approx. Ship Wght (lbs)
E500E	500	4.53 x 5.25 x 6.31	19
E750E	750	5.56 x 6.38 x 6.93	31

220 x 440 Volt Primary, 110 Volt Secondary, 50/60 Hz; 230 x 460 Volt Primary, 115 Volt Secondary, 50/60 Hz; 240 x 480 Volt Primary, 120 Volt Secondary, 60 Hz

Part #	VA	Dimensions HxWxD (inches)	Approx. Ship Wght (lbs)
E050	50	2.72 x 3.01 x 3.99	3
E075	75	2.96 x 3.39 x 4.36	4
E100	100	2.96 x 3.39 x 4.61	5
E150	150	3.89 x 4.5 x 4.48	8
E200	200	3.89 x 4.5 x 4.79	10
E250	250	3.89 x 4.5 x 5.21	11
E300	300	4.53 x 5.25 x 5.09	12
E350	350	4.53 x 5.25 x 5.53	15
E500	500	4.53 x 5.25 x 6.31	19
E750	750	5.56 x 6.38 x 6.93	31
E1000	1000	5.56 x 6.38 x 6.93	36

208/240/415 Volt Primary, 24 Volt Secondary, 50/60Hz; 277/480 Volt Primary, 24 Volt Secondary, 60Hz; 200/230/400 Volt Primary, 24 Volt Secondary, 50/60Hz; 220/380 Volt Primary, 23 Volt Secondary, 50/60Hz

Part #	VA	Dimensions HxWxD (inches)	Approx. Ship Wght (lbs)
E050TE	50	2.96 x 3.39 x 4.36	4
E100TE	100	3.89 x 4.5 x 4.48	8
E150TE	150	3.89 x 4.5 x 5.21	11
E250TE	250	4.53 x 5.25 x 5.53	15
E500TE	500	5.56 x 6.38 x 6.93	30

Energy Star® Transformers

Selection Tables: Single Phase
Group 1-240 x 480 Volt Primary, 120/240 Secondary, 60 Hz

Part #	KVA	Height / Width / Depth (inches)	Primary Amps	Secondary Amps
ES5H15S	15	23/14/16	62.5/31.3	125/62.5
ES5H25S	25	28/16/16	104/52.1	208/104
ES5H37S	37.5	31/18/18	156/78	313/156
ES5H50S	50	31/18/18	208/104	416/208
ES5H75S	75	44/23/21	313/156	625/313
ES5H100S	100	44/23/21	417/208	833/417
ES5H167S	167	46/26/24	695/348	1392/695

Selection Tables: Three Phase
Group A-480 Primary, 208/120 Secondary, 60 Hz

Part #	KVA	Height / Width / Depth (inches)	Primary Amps	Secondary Amps
ET2H15S	15	23/18/14	18.1	41.7
ET2H30S	30	28/23/16	36.1	83.4
ET2H45S	45	28/23/16	54.2	125
ET2H75S	75	34/28/22	90.3	208
ET2H112S	112.5	34/28/22	135	313
ET2H150S	150	44/33/21	181	417

SOLA/HEVI-DUTY

Energy Star® Transformers *(cont.)*

Selection Tables: Three Phase

Part #	KVA	Height / Width / Depth (inches)	Primary Amps	Secondary Amps
ET2H225S	225	46/36/24	271	625
ET2H300S	300	46/36/24	361	834
ET2H500S	500	65/45/35	602	1390

Group B- 480 Primary, 240 Volt, Secondary with reduced capacity center tap*, 60 Hz

Part #	KVA	Height / Width / Depth (inches)	Primary Amps	Secondary Amps
ET5H15S	15	23/19/14	18.1	36.1
ET5H30S	30	28/23/16	36.1	72.3
ET5H45S	45	28/23/16	54.2	108
ET5H75S	75	34/28/22	90.3	181
ET5H112S	112.5	34/28/22	135	271
ET5H150S	150	44/33/21	181	361
ET5H225S	225	46/36/24	271	542
ET5H300S	300	46/36/24	361	723
ET5 H500S	500	65/45/35	602	1204

SHP Series: Heavy Duty Modular Power Supplies
Universal AC 85-264VAC Single Phase for SH15 and SH20 models; 47-440 Hz, 180-264VAC 3 Phase for S3H models. Power Factor Correction meets IEC1000-3-2. Inrush is 40A max. Regulation is 2% for single outputs; 3.3% multiple outputs. Ripple is 1% or 50mV, whichever is greater. Protection includes overvoltage (115-130%), overcurrent (105-140%), shortcircuit, thermal. Output adjustment is ±10%. Screw terminals/Bus Bars for power terminations. Molex-type Connections for Signals (mating connectors included). (All AC and DC connections on opposite face of side mounted fan.) Chassis mounting. World-wide approvals include UL, CSA, TÜV and CE. EMI filter FCC Level B, CISPR 22 Level B EN55022 Level B. Case and fan included for full power ratings. -10° - 50°C. Derating 2.5% per degree up to 70°C.

Single Phase, 2000W

Part #	Output 1	Output 2/3/4/5/6
SH20-M3K2	5V, 240A	3.3V / 120A /-/-/-/-
SH20-Q3K3-7	5V, 420A	-/-/-/-/-
SH20-Q6K6-7	24V, 84.7A	-/-/-/-/-
SH20-Q9K9-7	48V, 43.7A	-/-/-/-/-
SH20-Z6Z7M3	5V, 240A	12V / 21A / 12V / 20A / 5V / 50A / 15V / 10A / 24V / 5A

Single Phase, 1250W - 1500W
Dimensions (H x W x D) are 5 x 5 x 11.

Part #	Output	Max Output
SH15-Q2	3.3V, 300A	1500 W
SH15-Q3	5V, 300A	1500 W
SH15-Q4	12V, 125A	1500 W
SH15-Q5	15V, 100A	1500 W
SH15-Q6	24V, 62.4A	1500 W
SH15-Q7	28V, 53.4A	1500 W
SH15-Q8	36V, 41.6A	1500 W
SH15-Q9	48V, 31.2A	1500 W

SOLA/HEVI-DUTY

SHP Series: Heavy Duty Modular Power Supplies *(cont.)*

Three Phase 1500W - 2000W
Dimensions (H x W x D) are 5 x 8 x 11.

Part #	Output 1	Max Output
S3H15-Q2	3.3V, 300A	1500 W
S3H15-Q3	5V, 300A	1500 W
S3H15-Q4	12V, 125A	1500 W
S3H15-Q5	15V, 100A	1500 W
S3H15-Q6	24V, 62.4A	1500 W
S3H15-Q7	28V, 53.4A	1500 W
S3H15-Q8	36V, 41.6A	1500 W
S3H15-Q9	48V, 31.2A	1500 W
S3H20-Q3K3-7	5V, 420A	2000 W
S3H20-Q6K6-7	24V, 87.4A	2000 W
S3H20-Q9K9-7	48V, 43.7A	2000 W

Silver Line Series - Single & Multi-Output Linears
The Silver Line Series follows the industry accepted footprint for open frame, linear power supplies. Standard screw terminal connections and optional covers for safety considerations. Screw terminal connections. Cover options. Industry standard footprint. Universal input and approvals (115/230 VAC). For noise sensitive or analog circuitry. Fast transient response. Built-in OVP on 5V models and optional on 12, 15 and 24V models. Automatic resetting overload protection. Two year warranty. Models SLS-12-017T, SLD-12-1010-12T and SLD-12-1818-12T are factory set for 12 volt operation. 15 volt operation is field adjustable. *With built-in OVP. #With remote sense (R.S.).

Part #	Output 1	Output 2
SLD-12-1010-12T	12V @ 1A or 15V @ .8A	-12V @ 1A or -15V @ .8
SLD-12-1818-12T	12V @ 1.8A or 15V @ 1.5V	-12V @ 1.8A or -15V @ 1.5A
SLD-12-3015-05T	5V @ 3A*#	12V @ 1.5A#
SLD-12-3434-12T	12V @ 3.4A#	-12V @ 3.4A#
SLD-15-3030-15T	15V @ 3A#	-15V @ 3A#
SLS-05-030-1T	5V @ 3A*#	-
SLS-05-060-1T	5V @ 6A*#	-
SLS-05-090-1T	5V @ 9A*#	-
SLS-05-120-1T	5V @ 12A*#	-
SLS-12-017T	12V @ 1.7A or 15V @ 1.5A	-
SLS-12-034T	12V @ 3.4A#	-
SLS-12-051T	12V @ 5.1A#	-
SLS-12-068T	12V @ 6.8A#	-
SLS-15-045T	15V @ 4.5A#	-
SLS-15-060T	15V @ 6A#	-
SLS-24-012T	24V @ 1.2A#	-
SLS-24-024T	24V @ 2.4A#	-
SLS-24-036T	24V @ 3.6A#	-
SLS-24-048T	24V @ 4.8A#	-
SLS-24-072T	24V @ 7.2A#	-
SLS-24-120T	24V @ 12.0A#	-
SLT12-20404-12T	5V @ 2A*#	12V @ .4A or 15V @ .4A
SLT12-31010-12T	5V @ 3A*#	12V @ 1A# or 15V @ .8A
SLT12-61818-12T	5V @ 6A*#	12V @ 1.8A or 15V @ 1.5A

SOLA/HEVI-DUTY

Linear OEM

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).

Part #	Description
83-12-218-3	12V @ 1.8A output
83-24-212-3	24V @ 1.2A output
83-24-225-3	24V @ 2.5A output
83-24-260-3	24V @ 6A output

GL Series: Single & Multi Output Switchers

Universal input. Compact size. Industry standard size (3 x 5", 40 watt). On board input fuse. Automatic overload protection. OVP on output #1. UL Recognized and CSA Certified, TÜV, CE, LVD. IEC 950. 100% burn-in. One year warranty. Power fail signal on 110 and 200 watt model. 200 Watt model enclosed with screw terminals. Other configurations available.

Part #	Output 1	Output 2	Output 3	Output 4	Max. Output
GLQ-01-110	5V, 10A	12V, 5A	-12V, 1A	-5V, 1A	110W
GLQ-05-200	5V, 30A	12V, 8A	-12V, 4A	24V, 4A	200W
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
GLS-04-040	24V, 2A	n/a	n/a	n/a	40W
GLS-04-110	24V, 4.5A	n/a	n/a	n/a	110W
GLS-04-200	24V, 8.4A	n/a	n/a	n/a	200W
GLT-03-065	5V, 6A	15V, 3A	-15V, 0.5A	n/a	65W

SMP Series - Super Slim Design Single and Multiple Output Modular Power Supplies

Flexible output configurations available. Universal AC 90-264VAC, 47-60 Hz. Power Factor Correction to Meet ENG1000-3-2. Inrush 40A max. Regulation is 2% for single outputs; 3.3% multiple outputs. Ripple is 1% or 50mV, whichever is greater. Protection includes overvoltage (115-130%), overcurrent (110-140%), shortcircuit, thermal. Output adjustment ±10%. Remote Inhibit (Open Collector) for main output, Power Good (Open Collector), AC Power Fail. Single Wire Current Share for redundancy or Scalability. Screw terminals for power terminals; Molex-type. Connections for signals (mating connectors included) (AC connections and End mounted Fan opposite DC outputs). Chassis mounting. Worldwide approvals UL, CSA, TÜV and CE. EMI filter FCC Level B, CISPR 22 Level B EN55022 Level B. Case and fan included for full power ratings. 0-50° C. Derating 2.5% per degree up to 70°C.

Max Output 1000 W
Dimensions (H x W x D) are 2.5 x 7 x 11.

Part #	Output 1	Output 2	Output 3	Output 4	Output 5
SM9-B3B4A4A6	5V, 60A	12V, 25A	12V, 10A	24V, 6A	-
SM9-B3B5A5A6	5V, 60A	15V, 20A	15V, 8A	24V, 6A	-
SM9-C2C3	3.3V, 100A	5V, 100A	-	-	-
SM9-C3C3	5V, 100A	5V, 100A	-	-	-
SM9-D1C3B4	5V, 100A	12V, 25A	12V, 10A	5V, 10A	-
SM9-D3B3B4B4	5V, 60A	12V, 25A	12V, 25A	5V, 10A	24V, 5A
SM9-D3B3B5B5	5V, 60A	15V, 20A	15V, 20A	5V, 10A	24V, 5A
SM9-E3C3B4	5V, 100A	12V, 25A	12V, 10A	15V, 2A	-15V, 2A

SOLA/HEVI-DUTY

SMP Series - Super Slim Design Single and Multiple Output Modular Power Supplies
(cont.)

Max Output 250 W
Dimensions (H x W x D) is 1.68 x 4 x 9.65

Part #	Output 1	Output 2	Output 3
SM2-R2	15V, 5A	15V, 5A	-
SM2-S3	5V, 50A	-	-
SM2-S4	12V, 20A	-	-
SM2-S5	15V, 16.6A	-	-
SM2-S6	24V, 10A	-	-
SM2-S7	28V, 9A	-	-
SM2-S9	48V, 5A	-	-
SM2-T1	5V, 20A	12V, 4A	12V, 4A
SM2-T2	5V, 20A	15V, 3A	15V, 3A
SM2-U4	5V, 40A	24V, 2.5A	-

Max Output 350 W
Dimensions (H x W x D) is 1.68 x 5 x 10.6

Part #	Output 1	Output 2	Output 3	Output 4
SM3-S3R1	5V, 50A	12V, 6A	12V, 6A	-
SM3-S3R2	5V, 50A	15V, 5A	15V, 5A	-
SM3-U2R6	5V, 40A	12V, 6A	12V, 4A	5V, 8A
SM3-U4R1	5V, 40A	12V, 6A	12V, 6A	24V, 2.5A
SM3-U4R2	5V, 40A	15V, 5A	15V, 5A	24V, 2.5A

Max Output 450 W
Dimensions (H x W x D) is 1.68 x 5 x 10.5

Part #	Output 1	Output 2	Output 3	Output 4	Output 5
SM4-S3S3	5V, 50A	5V, 50A	-	-	-
SM4-S3S6	5V, 50A	24V, 10A	-	-	-
SM4-S6S6	24V, 10A	24V, 10A	-	-	-
SM4-T6S3	5V, 50A	12V, 10A	12V, 4A	5V, 4A	-
SM4-U2S3	5V, 40A	5V, 50A	12V, 4A	-	-
SM4-U4T6	5V, 40A	12V, 10A	12V, 4A	5V, 4A	24V, 2.5A

Max Output 600 W
Dimensions (H x W x D) is 2.5 x 5 x 11.

Part #	Output 1	Output 2	Output 3	Output 4	Output 5
SM6-A3A5A5A6	5V, 20A	15V, 8A	15V, 8A	24V, 6A	-
SM6-B3A3A4A4	5V, 60A	12V, 10A	12V, 10A	5V, 20A	-
SM6-B3A3A5A5	5V, 60A	15V, 8A	15V, 8A	5V, 20A	-
SM6-B3B3	5V, 60A	5V, 60A	-	-	-
SM6-C3	5V, 100A	-	-	-	-
SM6-C6	24V, 21A	-	-	-	-

Max Output 600 W
Dimensions (H x W x D) is 2.5 x 5 x 11.

Part #	Output 1	Output 2	Output 3	Output 4	Output 5
SM6-C7	28V, 18A	-	-	-	-
SM6-C9	48V, 10.5A	-	-	-	-
SM6-G3C3A4	5V, 100A	12V, 10A	12V, 4A	5V, 8A	-

EDGE

SDP-T Compact Low Power DIN Rail Series
85 - 88% efficiency. -10°C to 70°C with no derating necessary until after 60°C. 25 msec hold-up @ 100 VAC. Space saving on the DIN rail. Fast connection. Short-circuit continuous protection. Optimized for output power up to 100 watt. Overload/underload current protection. Ripple is 50 mVpp. Three year warranty.

Part #	DC Output Volt	Output Current	Input Current	Size inch (mm)
SDP06-24-100T	24-28 VDC	0.6 A	0.63A @ 24 VAC; 54 @ 28 VAC	2.95 X 0.9 X 3.8 (75 X 22.8 X 96.7)
SDP1-24-100T	24 - 28 VDC	1.3A	0.6A @ 100 VAC; 0.35A @ 196 VA	3.58 x 1.77 x 2.95 (91 x 45 x 75)
SDP1-48-100T	48 - 56 V	1A	1.0A @ 100 VAC; 0.6A @ 196 VAC	3.58 x 1.77 x 2.95 (91 x 45 x 75)
SDP2-12-100T	10 - 12 V	2.5A	1.0A @ 100 VAC; 0.6A @ 196 VAC	3.58 x 1.77 x 2.95 (91 x 45 x 75)
SDP2-24-100T	24 - 28 VDC	2.1A	1.0A @ 100 VAC; 0.6A @ 196 VAC	3.58 x 1.77 x 2.95 (91 x 45 x 75)
SDP5-5-100T	5 - 5.5 V	5A	1.0A @ 100 VAC; 0.6A @ 196 VAC	3.58 x 1.77 x 2.95 (91 x 45 x 75)
SDP3-15-100T	12 - 15 V	4.2-3.4A	4.2A @ 12 VDC; 3.4A @ 15 VDC	2.95 X 0.9 X 3.8 (75 X 22.8 X 96.7)
SDP4-24-100LT	24 - 28 V	3.8A	2.0A @ 100 VAC; 1.3A @ 196 VAC	4.21 x 2.85 x 2.95 (107 x 72.5 x 75)
SDP4-24-100RT	24 - 28 V	4.2A	2.0A @ 100 VAC; 1.3A @ 196 VAC	4.21 x 2.85 x 2.95 (107 x 72.5 x 75)

Regulated DC Power Supply - Compact Size

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. 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.

Part # MW122A

Rail Mounted Power Supplies
Wide range of compact housing. Output volts is 24V. Load sharing parallel operation and redundancy. High efficiency and increase operating temperature. Power ON indication and overload status LED.

Slim Line
Input volts are 115/230 VAC. Phase is one.

Part #	Output Current (amps)	Power (watts)	Dimensions L x W x H (inches)
F2400125	1.25	30	1.77 x 2.83 x 4.13
F240050S	5	120	2.76 x 5.20 x 5.47
F24010S	10	240	2.76 x 5.81 x 6.46

Slim Line 3 Phase
Input volts are 3x 340-550. Phase is three.

Part #	Output Current (amps)	Power (watts)	Dimensions L x W x H (inches)
F24010S-3	10	240	3.18 x 6.02 x 6.29
F24020S-3	20	480	3.99 x 8.94 x 6.81

Horizontal
Input volts are 115/230 except F24020 is 195-265. Phase is one.

Part #	Output Current (amps)	Power (watts)	Dimensions L x W x H (inches)
F240025	2.5	60	4.25 x 4.84 x 2.56
F240050	5	120	5.79 x 4.84 x 3.39
F24010	10	240	8.07 x 4.84 x 3.39
F24020	20	480	9.45 x 6.02 x 3.39

Horizontal 3 Phase
Input volts are 3x 340-550. Phase is three.

Part #	Output Current (amps)	Power (watts)	Dimensions L x W x H (inches)
F24020-3	20	480	9.45 x 6.02 x 3.39
F24040-3	40	960	11.50 x 7.28 x 5.12

Power - *Power Adapters*

AC Adapters
CSA/UL wall mount adapters with 2.1mm output plug. Most available in centre negative or centre positive. All voltage ratings shown are at rated load.

Part #	Description
68-121P-1	12VDC @ 1A; centre positive
68-650-1	6VDC @ 500mA; centre negative
68-121A-1	12VAC @ 1A; AC Output
68-650P-1	6VDC @ 500mA; centre positive

AC Adapters
(cont.)

Part #	Description
68-125-1	12VDC @ 500mA; centre negative
68-901-1	9VDC @ 1 Amp; centre negative
68-125P-1	12VDC @ 500mA; centre positive
68-901A-1	9VAC @ 1 Amp; AC Output
68-128-1	12VDC @ 800mA; centre negative
68-950-1	9VDC @ 500mA; centre negative

MODE ELECTRONICS

AC Adapters
(cont.)

Part #	Description
68-163A-1	16VAC @ 300mA; AC Output
68-121-1	12VDC @ 1A; centre negative
68-242-1	24VDC @ 200mA; centre negative
68-244-1	24VDC @ 350mA; centre negative
68-246-1	24VDC @ 600mA; centre negative
68-162AS-1	16.5VAC @ 2.42A, AC Output
68-241AS-1	24VAC @ 1.67A, AC Output

Universal AC Adapters

These multi-voltage adapters are available in 3, 4.5, 6, 7.5 and 9 volts. They feature polarity reversing switch and universal output plugs to fit any application.

Part #	Description
68-514-1	12VDC @ 500mA
68-518-1	12VDC @ 800mA

Universal Switching Adapter, Regulated Output

This multi-output switching power supply can be used for the following output voltages: 3, 4.5, 6, 7.5 and 9. Loads are from 0-1.7 Amps. The unit comes with an assortment of changeable plugs suitable for most requirements. The plugs can be easily changed to center positive or negative. The output voltage is selected by a switch on the back of the adapter. Output is 12VDC @ 1.7A.

Part # 68-519-1

philmore

Heavy Duty Multiple Voltage Selection - 800 mA

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. Plugs are 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35mm x 3.5mm, 1.7mm x 4.0mm and 9 volt snap adapter.

Part # BE240

AC to AC Adapter

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

Part # 48-414

Heavy Duty Multiple Voltage Selection - 500 mA

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. Plugs are 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35mm 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.

Part # BE227

philmore

Multiple Voltage Selection - 300 mA

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, 1.35mm 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.

Part # BE226

World Traveler AC/DC Adapter (600mA)

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 appliances e.g. radios, cassette recorders, handheld games, calculators, portable phones, toys, office equipment and other electronic products.

Part # 48-140

Regulated DC/DC Converters

48-160   48-150

Part #	Description
48-160	Unit has two 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.
48-150	Provide any one of six different DC voltages in your automobile. Plugs into the cigarette lighter socket. Full regulation assures that the voltage is accurately controlled. 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 connect to almost any equipment.
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°.

JIM-PAK ELECTRONIC COMPONENTS

AC Power Supply / Charger

AC to DC

Part #	Description
DC-M-500	Multi-volt, 500mA, multi-plug
DC-M-1.0	Multi-volt, 1.0 amp multi-plug
DC-5-2.6-2.1	5V, 2.6 amp, 2.1 x 5.5 female plug REGUL'D
DC-6-500-2.1	6V, 500mA, 2.1 x 5.5 female plug
DC-6-500-3.5	6V, 500mA, 3.5mm male plug
DC-9-500-2.1	9V, 500mA, 2.1 x 5.5mm female plug
DC-9-500-3.5	9V, 500mA, 3.5mm male plug
DC-9-600-2.5	9V, 600mA, 2.5 x 5.5mm female plug
DC-9-1.0-2.1	9V, 1.0 amp, 2.1 x 5.5mm female plug
DC-9-1.0-3.5	9V, 1.0mA 3.5mm male
DC-12-500-2.5	12V, 500mA, 2.5 x 5.5mm female plug
DC-12-500-2.1	12V, 500mA, 2.1 x 5.5mm female plug

JIM-PAK™
ELECTRONIC COMPONENTS

JIM-PAK™
ELECTRONIC COMPONENTS

AC Power Supply / Charger *(cont.)*

AC to DC

Part #	Description
DC-12-500-3.5	12V, 500mA, 3.5mm male
DC-12-1.0-2.1	12V, 1.0mA, 2.1 x 5.5mm female plug
DC-12-1.0-2.5	12V, 1.0 amp, 2.5mm female plug
DC-12-1.0-3.5	12V, 1.0 amp, 3.5mm male
DC-12-1.5-2.5	12V, 1.5 amp, 2.5 x 5.5mm female plug
DC-15-1.0-2.1	15V, 1.0 amp, 2.1 x 5.5mm female plug
DC-15-1.0-2.5	15V, 1.0 amp, 2.5 x 5.5mm female plug
DC-15-1.0-3.5	15V, 1.0 amp, 3.5mm male plug
DC-18-500-2.1	18V, 500mA, 2.1 x 5.5mm female plug
DC-24-400-3.5	24V, 400mA, 2.1 x 5.5mm female plug
DC-24-600-2.1	24V, 600mA, 2.1 x 5.5 female plug
DC-24-1.2-2.1	24V, 1.2 amp, 2.1 x 5.5mm female plug
DC-24-1.2-2.5	24V, 1.2 amp, 2.5 x 5.5mm female plug
DC-24-1.2-3.5	24V, 1.2 amp, 3.5 male plug

AC to AC

Part #	Description
AC-9-1.0-2.1	9V, 1 amp p, 2.1 x 5.5mm female plug
AC-9-1.0-2.5	9V, 1 amp, 2.5 x 5.5mm female plug
AC-12-1.0-2.1	12V, 1.0 amp, 2.1 x 5.5mm female plug
AC-12-1.0-3.5	12V, 1.0 amp, 3.5mm male plug
AC-12-3.3-SC	12V, 3.3 amp with screw terminal
AC-16.5-2.4-SC	16V, 2.4 amp with screw terminal

AC Power Supply / Charger *(cont.)*

AC to AC

Part #	Description
AC-16-1.1-2.1	16V, 1.1 amp mp, 2.1 x 5.5mm female plug
AC-16-1.3-SC	16V, 1.3 amp with screw terminals
AC-16-3.3-SC	16V, 3.3 amp with screw terminals
AC-16.5-1.3-SC	16.5V, 1.3 amp with screw terminals
AC-18-500-3.5	18V, 500mA, 3.5mm male plug
AC-18-1.0-2.1	18V, 1.0 amp, 2.1 x 5.5mm female plug
AC-18-2.7-SC	18V, 2.7 amp with screw terminals
AC-18-1.0-3.5	18V, 1.0 amp, 3.5mm male plug
AC-24-500-2.1	24V, 500mA, 2.4 x 5.5mm female plug
AC-24-1.6-SC	24V, 1.6 amp with screw terminals

Laptop AC to DC Switching Power Supply

Part #	Description
DC-12-4.1-2.1	12V, 4.1 amp - laptop switching regulated
DC-15-3.3-2.1	15V, 3.3 amp - laptop switching regulated
DC-18-3.3-2.1	18V, 3.3 amp - laptop switching regulated
DC-19-3.1-2.1	19V, 3.1 amp - laptop switching regulated
DC-20-3.0-2.1	20V, 3.0 amp - laptop switching regulated
DC-24-2.5-2.1	24V, 2.5 amp, laptop switching regulated
DC-U-M	Universal laptop switching 90 watts - 15, 18, 19, 20, 24V - 5 tips
PLUG-2.1	2.1 x 5.5mm female plug
PLUG-2.5	2.5 x 5.5mm female plug
PLUG-3.5	3.5mm male plug
PLUG-C	Center pin plug

Power - *Grounding*

IDEAL

Powr-Connect™ Grounding Connectors

Designed to maintain proper contact and alignment between ground and wire rod. Brass or plated screws for corrosion resistance. High-strength copper alloy construction. Sizes in inches.

Heavy-Duty Clamps

Part #	Rod Dia.	Wire Range	H x W x L
87-934	3/4	1/0 - 8	2 1/4 x 1 1/16 x 1
87-958	5/8	1/0 - 8	2 1/8 x 7/8 x 1
87-858	5/8	2 - 10	2 7/8 x 5/8

High-Strength Ground Clamps

Part #	Pipe Size	Wire Range	H x W x L
87-563	1/2 - 1	2 - 10	2 3/4 x 2 3/8 x 3/4
87-564	1 1/4 - 2	2 - 10	3 3/4 x 3 5/8 x 3 7/8
87-565	2 1/2 - 4	4 - 10	6 x 6 5/16 x 1

PANDUIT

Grounding Clamp, U-Bolt, Bronze

Used to ground copper conductor parallel or at a right angle to a rod, tube or pipe. Made from high strength, electrolytic cast bronze.

Part #	Accommodates - Rod, IPS	Conductor Size Range	Width in (mm)
GPL-4-Q	5/8 or 3/4, 3/8	#8 SOL - #4 STR	1.38 (35.1)
GPL-5-Q	5/8 or 3/4, 3/8	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-6-Q	5/8 or 3/4, 3/8	2/0 SOL - 250 kcmil	1.88 (47.8)
GPL-8-Q	7/8 or 1, 1/2 or 3/4	#8 SOL - #4 STR	1.38 (35.1)
GPL-9-Q	7/8 or 1, 1/2 or 3/4	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-10-Q	7/8 or 1, 1/2 or 3/4	2/0 SOL - 250 kcmil	1.88 (47.8)
GPL-14-X	-, 1	#8 SOL - #4 STR	1.38 (35.1)
GPL-15-X	-, 1	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-16-X	-, 1	2/0 SOL - 250 kcmil	1.88 (47)
GPL-20-X	-, 1 1/4	#8 SOL - #4 STR	1.38 (35.1)
GPL-21-X	-, 1 1/4	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-22-X	-, 1 1/4	2/0 SOL - 250 kcmil	1.88 (47.8)
GPL-26-X	-, 1 1/2	#8 SOL - #4 STR	1.38 (35.1)
GPL-27-X	-, 1 1/2	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-28-X	-, 1 1/2	2/0 SOL - 250 kcmil	1.88 (47.8)
GPL-32-3	-, 2	#8 SOL - #4 STR	1.38 (35.1)
GPL-33-3	-, 2	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-34-3	-, 2	2/0 SOL - 250 kcmil	1.88 (47.8)

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Grounding Clamp, U-Bolt, Bronze
(cont.)

Part #	Accommodates - Rod, IPS	Conductor Size Range	Width in (mm)
GPL-39-3	-, 2 1/2	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-40-3	-, 2 1/2	2/0 SOL - 250 kcmil	1.88 (47.8)
GPL-44-1	-, 3	#8 SOL - #4 STR	1.38 (34)
GPL-45-1	-, 3	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-46-1	-, 3	2/0 SOL - 250 kcmil	1.88 (47.8)
GPL-51-1	-, 3 1/2	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-52-1	-, 3 1/2	2/0 SOL - 250 kcmil	1.88 (47)
GPL-57-1	-, 4	#4 SOL - 2/0 STR	1.63 (41.4)
GPL-58-1	-, 4	2/0 SOL - 250 kcmil	1.88 (47.8)

Ground Clamp for Water Pipes - Bronze
Grounds copper code conductors to water pipe or copper tube. Cast from high strength bronze. Screws plated for corrosion resistance. CSA Certified and UL Listed per UL 467 for grounding and bonding.

Part #	Water Pipe Range (In.)	Conductor Size Range	Wire Dia. Range (In.)	Length - In. (mm)	Width - In. (mm)
KP1-C	1/2 - 1	#10 SOL - #2 STR	.102 - .292	2.28 (57.9)	.66 (16.8)
KP2-L	1 1/4 - 2	#10 SOL - #2 STR	.102 - .292	3.58 (90.9)	.73 (18.5)

Code Conductor, Heavy Duty, CTAP
For use with solid and stranded copper code conductors. For tapping into unbroken continuous main, as a wire joint or 2-way splice. Made from heavy wall, extruded, high conductivity copper. UL Listed per 467 for grounding and bonding, acceptable for direct burial in earth or concrete.

Part #	Copper Conductor Size - Run	Copper Conductor Size - Tap	Die No.	Height (H) - In. (mm)
CTAP4-8-L	#6 - #4 AWG SOL or STR	#8 AWG SOL or STR	BG	.73 (18.5)
CTAP4-6-L	#6 AWG STR, #4 AWG SOL or STR	#6 AWG SOL or STR	BG	.76 (19.3)
CTAP4-4-L	#4 AWG SOL or STR	#4 AWG STR	BG	.81 (20.6)
CTAP2-4-Q	#2 AWG SOL or STR	#8 - #4 AWG SOL or STR	C	.96 (24.4)
CTAP2-2-X	#2 AWG SOL or STR	#2 AWG SOL or STR	C	1.05 (26.7)
CTAP2/0-2-X	1/0 - 2/0 AWG STR	#8 - #2 AWG SOL or STR	O	1.32 (33.5)
CTAP2/0-2/0-X	1/0 - 2/0 AWG STR	1/0 - 2/0 AWG STR	O	1.37 (34.8)
CTAP4/0-2-X	3/0 - 4/0 AWG STR	#6 - #2 AWG SOL or STR	F	1.66 (42.2)
CTAP4/0-2/0-X	3/0 - 4/0 AWG STR	1/0 - 2/0 AWG STR	F	1.57 (39.9)
CTAP4/0-4/0-X	3/0 - 4/0 AWG STR	3/0 - 4/0 AWG STR	F	1.57 (39.9)

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Code Conductor, Thin Wall, CTAP
For copper code stranded connections. For copper-to-copper tapping splicing or pigtailing. Color coded to show proper crimp die number and die color. UL Listed and CSA Certified to 600V. CTAPF10-16-C available with square, not flared ends.

Part #	Copper Conductor Size		No. of Ribs	Length - In. (mm)
	Run	Tap		
CTAPF10-16-C	#14 AWG #12 AWG #10 AWG	#16 - #14 AWG #16 - #12 AWG #14 AWG	0	.41 (10.4)
CTAPF8-12-C	#10 AWG #8 AWG	#10 AWG #12 AWG	0	.67 (17.0)
CTAPF6-12-C	#8 AWG #6 AWG	#10 - #8 AWG #12 - #10 AWG	0	.67 (17.0)
CTAPF4-12-C	#6 AWG #5, #4 AWG	#8 - #6 AWG #12 - #8 AWG	1	1.25 (31.8)
CTAPF3-12-C	#5, #4 AWG #3 AWG	#6 - #5 AWG #12 - #6 AWG	1	1.25 (31.8)
CTAPF2-12-C	#4 AWG #3 AWG #2 AWG	#4 AWG #5 AWG #12 - #6 AWG	1	1.25 (31.8)
CTAPF1-12-C	#3 AWG #2 AWG #1 AWG	#4 - #3 AWG #5 - #4 AWG #12 - #5 AWG	2	1.82 (46.2)
CTAPF1/0-12-L	#2 AWG #1 AWG 1/0 AWG	#4 - #2 AWG #4 - #3 AWG #12 - #4 AWG	2	1.82 (46.2)
CTAPF2/0-12-Q	#1 AWG 1/0 AWG 2/0 AWG	#2 - #1 AWG #3 - #2 AWG #12 - #3 AWG	2	1.82 (46.2)
CTAPF3/0-12-Q	1/0 AWG 2/0 AWG 3/0 AWG	#1 - 1/0 AWG #2 - #1 AWG #12 - #2 AWG	2	1.82 (46.2)

Common Bonding Network (CBN) Jumper Kit
Bonds the rack or cabinet to the MCBN. HTAP, included in kit, requires crimping tool and die. HTAP is UL Listed and CSA Certified for applications up to 600V when crimped with PANDUIT and specified competitor crimping tools and PANDUIT crimping dies Engineered to comply with US and International grounding requirements. Includes: #6 AWG (16mm²) jumper; 60" (1.52M) length; 45° bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant, two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws and a copper compression HTAP for connecting to the CBN in sizes ranging from #6 to #2 AWG (16-35mm²).

Part # RGCBNJ660P22

Rack Grounding Strip Kits
Bonds up to 44 RU per rack. EIA Universal mounting hole pattern. Engineered to comply with US and International grounding requirements.

Part #	Description
RGS134-1Y	Rack grounding strip; 78.65" (2M) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz (5cc) of antioxidant, one grounding sticker and three each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.
RGS134-10-1Y	10 rack grounding strips; 78.65" (2M) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz (5cc) of antioxidant, one grounding sticker and 30 each #12-24 x 1/2" and M6 x 12mm thread-forming screws.

Equipment Jumper Kits

Bonds network equipment to grounding strip or grounding busbar. Available with both ends factory terminated to provide a bolt-on solution or with one end factory terminated to attach to the grounding strip or grounding busbar. Use jumpers with 90° ben lug, on grounding strip side, for high density grounding requirements up to one ground point per RU. Engineered to comply with US and International grounding requirements.

#6 AWG Equipment Jumper Factory Terminated on Both Ends

#6 AWG (16mm²) jumper; bent lug on grounding strip side to straight lug on equipment; provided with .16 oz (5cc) of antioxidant and two each #12 -24 x 1/2", M6 x 12mm, #10 - 32 x 1/2" and M5 x 12mm thread-forming screws. Length is 36 in (.91M). 90° angle.

Part # RGEJ636PFY

#6 AWG Equipment Jumper Factory Terminated on One End

#6 AWG (16mm²) jumper; bent lug on grounding strip side; provided with .16 oz (5cc) of antioxidant and two each #12 - 24 x 1/2", M6 x 12mm, #10 - 32 x 1/2" and M5 x 12mm thread-forming screws. Length is 57 in (1.45M). 90² angle.

Part # RGEJ657PFY

Electrostatic Discharge (ESD) Port Kit

Accommodates standard ESD wrist strap 4mm plug. Can be mounted to front or back of rack or cabinet for convenient access. Bent 45°, acts as a hook to hold wrist strap. Two-hole configuration available to provide anti-rotation and prevent loss of bond. Barrel permanently marked with the protective earth (ground) symbol. Engineered to comply with US and International grounding requirements.

Part #	Description
RGESD-1Y	One-hole ESD port; provided with an ESD protection sticker; .16oz (5cc) of antioxidant and one each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws
RGESD2-1	Two-hole ESD port with 5/8" hole spacing; provided with an ESD protection sticker; .16oz (5cc) of antioxidant and two each #12-24 x 1/2" and M6 x 12mm thread-forming screws

BICSI/J-STD-607-A Telecommunications Grounding Busbars

Made of high conductivity copper and tin plated to inhibit corrosion. Comes pre-assembled with brackets and insulators attached for quick installation. Meets BICSI and J-STD-607-A requirements for network systems grounding applications.

Telecommunications Grounding Busbars (TGB)

Part #	Bar Size	No. of 1/4" (MG) Stud Holes with 5/8" (16mm) Spacing	No. 3/8" (N-8) Stud Holes with 1" (25.40) Spacing
GB2B0304TPI-1	1/4" x 2" x 10"	4	3
GB2B0306TPI-1	1/4" x 2" x 12"	6	3

Telecommunications Main Grounding Busbars (TMGB)

Part #	Bar Size	No. of 1/4" (MG) Stud Holes with 5/8" (16mm) Spacing	No. 3/8" (N-8) Stud Holes with 1" (25.40) Spacing
GB4B0612TPI-1	1/4" x 4" x 12"	12	6
GB4B0624TPI-1	1/4" x 4" x 20"	24	6

Complete Grounding Kit for #12-24 or M6 Rail Fasteners

Complete grounding kit for new installations on cabinets with 42 RUs, threaded #12-24 or M6 rail fasteners and rail depth up to 30" (.75M). Includes one RGS13442-4-1 cabinet grounding strip kit, two RGESD2-1 ESD port kits, one RGRB19U grounding busbar kit and one CGJ630U front to back rail jumper kit.

Part # CGK630U

Complete Grounding Kit for Cage Nut Rail Fasteners

Complete grounding kit for new installations on cabinets with 42 RU2, cage nut rail fasteners and rail depth up to 30" (75M). Includes one RGS13442B-4-1 cabinet grounding strip kit, two RGESD2B-1 ESD port kits, one RGRB19U grounding busbar kit and one CGJ630UB from to back rail jumper kit.

Part # CGK630UB

Which Power Supply is Best for Your Application?

- **Consider your present and future requirements**
- **Maximum voltage required**
- **Maximum current required**
- **Number of outputs**

If you would like assistance in determining which products are appropriate, our sales representatives will gladly assist you!