

Fenton PowerPal

UNINTERRUPTIBLE POWER SUPPLY

Battery Test and Alarm Silencer Switch

PowerPal™ conducts automatic battery test every time the UPS is turned on. Perform manual test by simply pushing battery test switch.

AC Operation Indicator

Battery Operation and Test Indicators

User Replaceable, Hot-Swappable Batteries
Automatic Voltage Regulation
 Built-in brownout protection ("buck and boost") corrects voltage fluctuations over a wide 49% range (-27% to +22% of nominal input voltage), reducing wear on batteries and stress on your computer equipment's electronic circuitry.

Smart RS-232 Interface Port

PowerPal's intelligent micro-processor design provides SNMP-ready, enhanced UPS monitoring and automatic shutdown capabilities for sophisticated network applications.

Dual Modem (RJ11) & 10 Base-T(RJ45) Surge Suppression Jacks

Protects equipment and data against surges coming through telephone line or LAN line. PowerPal™ even comes with an extra 6 foot telephone line cord!

Power Backup

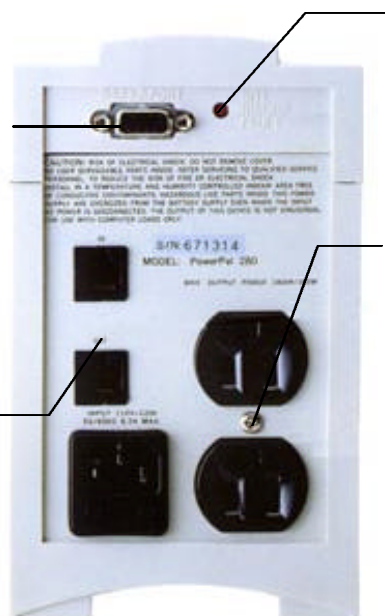
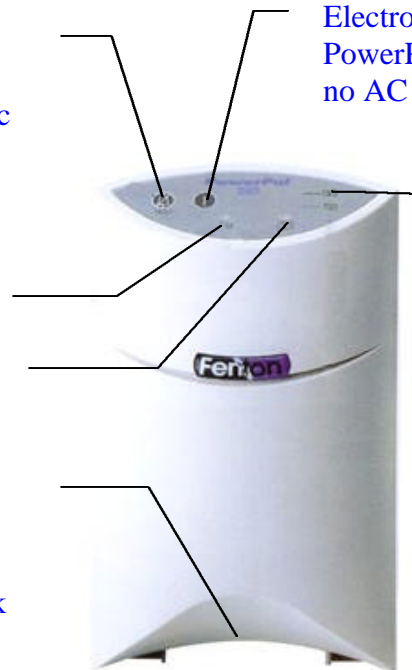
Line-interactive DC/AC inverter provides instantaneous, Voltage conditions. During normal AC operation The line-interactive inverter works in reverse to efficiently charge the battery

Electronic On/Off Switch

PowerPal™ can be turned on even when no AC utility power is available!

Battery Replacement and Overload Indicators

SmartLoad™ circuitry warns of overloads and shuts down UPS during prolonged Overload conditions. No nuisance fuse blows!



Site Wiring Fault Indicator
 Warns of potentially hazardous building wiring.

AC Output Provides Surge Protection and EMI/RFI Noise-Filtering
 L280 : Two Output Receptacles
 L425: Three Output Receptacles
 L660: Four Output Receptacles
 L1000/L1400: Six Output Receptacles

The User-Friendly and Intelligent UPS that Offers Outstanding Power Protection Features at an Affordable Price

Intelligent Power Management

Power Failures can occur at any time, including when your computer system is running unattended. To protect your data at ALL times, PowerPal™ comes with PowerSmart™ intelligent monitoring and automatic shutdown software.

When there is a power interruption, PowerSmart™ *broadcasts a warning message* to all workstation users on the network, urging them to finish their current tasks. In the event of a lengthy power failure, PowerSmart™ *automatically saves files and gracefully shuts down* the operating system after a user-configured time period or when the UPS batteries are low on energy. PowerSmart™ can even notify an off-site systems administrator of the shutdown by paging him or her through a modem!

PowerSmart™ provides other useful management functions too, like *scheduling automatic system boot up and shutdown*, monitoring UPS battery condition, and logging and analyzing abnormal utility power conditions.

Model numbers for UPS software and hard ware accessories

200 : RMS-DOS; Windows 3.1; Windows95 and Windows NT

210 : same as above but also covers Novell NETWARE operating system

300 : SNMP Adapter

Call your distributor or dealer for other software needs.

Optional Features

Runtime Extendible Version of PowerPal 1000X and 1400X

PowerPal™ 1000 and 1400VA models are also available in 1000X and 1400X runtime extendible models, which can be connected to optional external battery banks. This configuration can provide up to eight hours backup runtime for a typical file server. Specify battery bank model B2411 for PowerPal™ 1000X and battery bank B3611 for 1400X. These battery banks are not interchangeable.



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Specifications

Model No.	L280	L425	L660	L1000	L1400
TOPOLOGY:	fully intelligent single-chip controller capable for SNMP or Smart UPS software application				
INPUT					
Voltage	100/115/230 VAC Nominal				
Voltage Window	+22/-27 % of nominal input without using Battery				
Frequency	50 or 60Hz +/- 5% auto-switching				
OUTPUT					
Voltage (on Battery)	Stepped approximation to Sine Wave +/- 3% (same as input nominal)				
Frequency	50 or 60Hz +/- 1% (Same as input Hz)				
Volt. Regulation	AVR automatic increases output voltage 12.5% above input voltage if -14% to -27% of nominal. AVR decreases output voltage 12.5% below input voltage if +10 to +22.5% of nominal				
VA Rating	280	425	660	1000	1400
Wattage	180	270	420	670	950
Transfer Time	4 ms typical (2-6 milliseconds)				
Sockets(IEC or NEMA)	2	2 of IEC, 3 of NEMA	4	6	6
SURGE PROTECTION					
Energy Rating	320 Joules instantaneous response				
Test Standard	IEEE 587 Cat. A & B				
Modem.10Base-T Port	RJ11(telephone/modem) or RJ45(10 base-T/Ethernet)compatible (6 ft telephone cord attached)				
NOISE FILTERING					
EMI/RFI	full time suppression				
Attenuation	full time suppression				
BATTERY					
Full/Half load Runtime	4-5/10-12 min.	5-6/12-14 min.	4-5/10-12 min.	7-8/16-18 min.	6-7/11-16 min.
Battery Volt.	12Vdc	12Vdc	24Vdc	24Vdc	36Vdc
Type	Lead-acid maintenance-free				
Recharge Time	typical 6 hours to 90% charged				
PROTECTION					
Over/Under Volt.	Switch to Battery O/P when Utility over regulation range				
Overload/Short Circuit	SmartLoad sensor with current limited & fuse protection for both Utility & Battery Mode.				
Low Battery	two stages, no battery drain after cut-off				
WARNING DIAGNOSTICS					
LED on Front Panel	on Utility, on Battery, Replace Battery, overload, Battery Level & Load Level indicators (L1000, 1400 only)				
Beeping Alarm	on Battery, low Battery, Overload.				
Advanced Mode	default period automatically self-test				
COMMUNICATION(DB9 Port)	port for both true RS232 & Contact Closure signals				
MECHANICAL					
Max. Dimen. (WxHxD mm)	107x170x350 (4.2"x6.7"x13.8")		107x170x385 (4.2"x6.7"x15")	220x170x440 (8.7"x6.7"x17.3)	
Weight(Kg/Lbs)	4.9/10.8	6.7/14.9	9/19.8	18/39.6	23/50.6
Shipping Wt.(Kg/Lbs)	6/13.3	7.8/17.1	10/22	20/44	25/55
ENVIRONMENT					
Ambient	0-40 degree C, 0-90% non-condensing, 3000 meters max. elevation.				
Audible Noise	less than 45 dbA (1 meter measured) on either Utility or Battery Mode				

* The above specifications are subject to change without notice.

* All tradenames mentioned are the properties of their respective owners.

PowerPal Application Runtime Chart (estimated minutes)					
	L280	L425	L660	L1000	L1400
PC/Mac/Workstation W/ 15" Monitor	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
PC/Mac/Workstation W/ 17" or 20" Monitor	5 - 8	10 - 20	20 - 30	30 - 40	40 - 50
File Server		5 - 10	10 - 20	20 - 30	30 - 40

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