PowerES
280, 420, 650
Uninterruptible Power Systems

OPTI-UPS
Optimized Power Protection

THREE YEAR LIMITED WARRANTY **3**
OPTI-UPS

Line Interactive Uninterruptible Power for Personal Computers, Networks and Stand Alone Systems

The OPTI-UPS Enhanced Series offers advanced line interactive power protection normally found in models costing much more. Affordably priced and engineered for networks and stand-alone systems, each PowerES model provides guaranteed protection from blackouts, brownouts, extended overvoltage conditions, surges, sags and other potentially damaging power disturbances. Built-in surge protection for your Internet or network connection removes any chance that a voltage spike will enter your system. Included in the Power Management Suite CD ROM is OPTI-SAFE+ auto shutdown software. OPTI-SAFE+ allows users to view power conditions and communicate with the UPS via a serial port or optional USB port. For more information on the full line of OPTI-UPS products, contact customer support.

- **Dependability and Quality**
  Every OPTI-UPS includes a 3-year limited warranty, is backed with an additional $25,000 Connected Equipment Policy*, and has been manufactured to the strictest ISO9001 Quality standards. *(US and Canada only, restrictions apply)

- **Lightning, Surge, EMI/RFI Protection**
  Protects your hardware and software from damaging power events.

- **Internet/Network Protection**
  Modem (RJ11)/Ethernet (RJ45) connections complete your system protection by removing any chance of a surge entering through your data lines.

- **Optimized Battery Management**
  Includes proprietary multi-stage rapid battery charger, microprocessor based battery status reports, and easy Hot Swappable battery replacement.

- **Site Wiring Fault Indicator**
  Alerts you to hazardous missing ground and reverse polarity site miswirings.

- **Microsoft Certified Plug and Play**
  Allows for quick and easy installation with Windows 95/98.
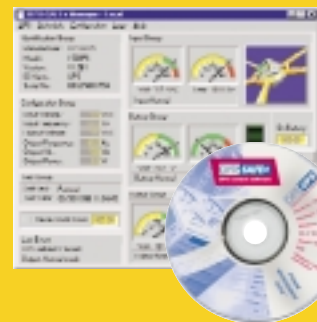
- **Power Management Suite**
  OPTI-SAFE+ system shutdown software puts you in control of your UPS and also provides advanced power analysis capabilities.

- **SNMP Based Network Management**
  OPTI-SAFE+ software is built on a simple and transparent SNMP Agent. This allows for remote UPS management, timely network power alarms and total network shutdowns even across different operating systems. A separate SNMP adapter is available for applications where a software based approach can not be used.

Included With Every PowerES, Power Management Suite™ Software.

Power Management Suite™ automatically initiates warnings and closes files in Windows® 3.X, 95/98, NT, OS/2, Novell®, and DOS environments. Unique On-Screen gauges provide instant power event analysis and power systems status information. Reports are viewed and printed in detailed, easy to read oscilloscope and bar chart graphic formats.

WWW.OPTI-UPS.COM

OPTI-UPS *Optimized Power Protection*

(888) OPTI-UPS

OPTI-UPS PowerES
Uninterruptible Power Systems

Features Include

- **True Rated Unity Power Factor Design**
- **Windows 95/98 Plug 'n Play**
- **Line Conditioning**
- **User Changeable Battery**
- **Data Line Protection**
- **Audible Alarms**
- **Power Switch on Front**
- **Test/Silence Switch on Front**
- **Adjustable Low Voltage Transfer Point**
- **Adjustable High Voltage Transfer Point**
- **UPS Topology Real-Time Viewing with OPTI-SAFE™+Software**
- **Power Management Suite™ Includes Auto Shutdown, Schedule Reboot & Remote Shutdown**

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THREE YEAR LIMITED WARRANTY

$25,000 POLICY

OPTI-UPS® Features	280ES	420ES	650ES
Nominal Input Voltage	100/110/120/127V Selectable or 200/220/230/240 Selectable		
Nominal Input Frequency	50/60Hz Auto Detection of Input		
Line Interactive Design	Yes		
Line Conditioning Regulation (AVR)	Yes		
Maximum Capacity (Volt-Amps/Watt)	280VA/280W	420VA/420W	650VA/650W
Typical Runtime (1/2, Full Load)	18/6 min.	15/5 min.	15/5 min.
Outlet Receptacles*	Four (1x0V)		
LED Functions	note a		
Audible Alarms	On-Battery, Low-Battery, Overload		
Serial Communication Port	Yes		
Power Management Suite™ Included†	Yes		
Microsoft Plug 'n Play certified	Yes		
Data Line Surge Ports (Modem, 100BaseT)	RJ 11/45		
Recharge Time to 90%	<5 Hr.		
Overcurrent/Overload Protection	Audible Alarm, LED indicator, Circuit Breaker, Electronic Circuit Protection		
Surge Suppression	Meets ANSI C62.41 (IEEE 587) Class A and Class B		
Surge Energy Rating	475 Joules, 6,500A		
Transfer Time (Typical)	2 ms		
Site Wiring Fault Indicator‡	Yes		
Dimensions (WxDxH): Physical (mm/in)	126x345x170/ 5.0x13.6x6.7		
Packing (mm/in)	220x430x260/ 8.7x16.9x10.2		
Weight (Kg/lbs): Net	6.5Kg/14.3lbs	7.0Kg/15.4lbs	9.5Kg/20.9lbs
Gross	7.5Kg/16.5lbs	8Kg/17.6lbs	10.5Kg/23.1lbs
Connected Equipment Warranty	$25,000 Surge Protection Warranty On Connected Equipment		
EMI/RFI Certification	Certified FCC Class B		
Environment	0~95% Hum. 0~40 degree C		
Safety	UL 1778/cUL / (1x0V) TUV / CE (2x0V)		
Manufacturing Standard	ISO 9001		
UPS Control Language Available	Yes		

note a   Four LED Array - Power Status, Battery, Replace Battery, Overload

* Three (2x0V)   †Supports Netware, Windows® 3.x, 95/98, NT, OS/2, DOS   ‡Not available on high voltage models

OPTI UPS®
Optimized Power Protection

2000 compliant

USB Optional Adapter

New for Windows® 98