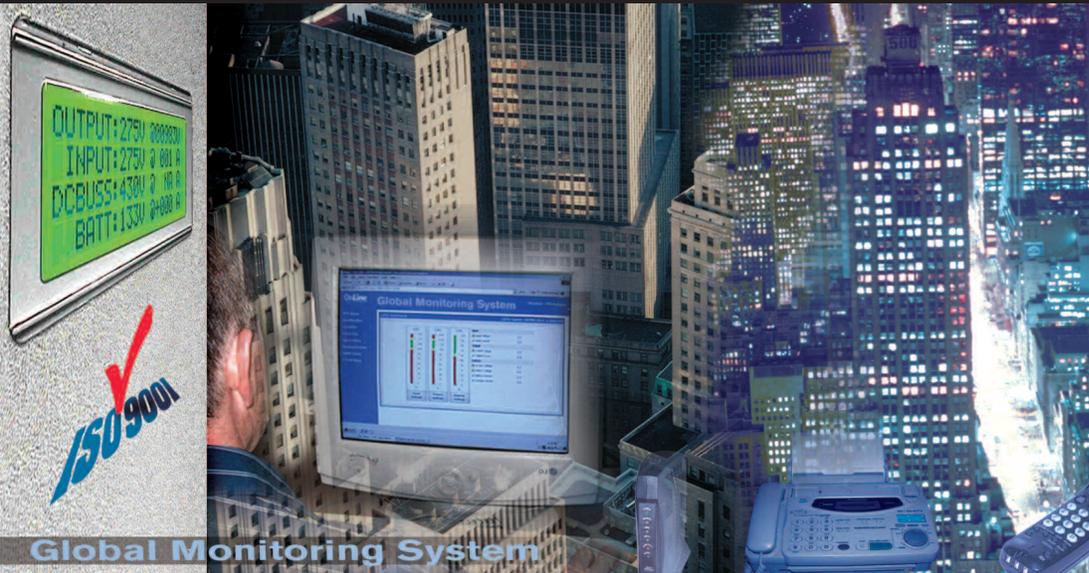


THREE PHASE BATTERY BACKUP SYSTEM PULSE WIDTH MODULATED, HIGH FREQUENCY UPS...

PROTECTOR 3

10 TO 62.5 kVA

COMPUTER ROOM • PRODUCTION FACILITY • TESTING LAB • TELECOMMUNICATIONS
RETAIL SALES / POS • INDUSTRIAL • GOVERNMENT • PUBLIC BUILDING • SCHOOLS
LIBRARY • HEALTHCARE • CRUISE LINE • BANKING / CREDIT • PRINTING FACILITY



State of Art Technology

High Frequency PWM double conversion use Digital Signal Processing for control, measurement to protect the load. The PROTECTOR is always on-line, eliminating noise, spikes, sags, and brownouts. Should utility power fail, the inverter provides uninterrupted output power to the critical load. This high frequency PWM unit is CSA listed to ULI 778 and 924A.

Latest Technology for Switch-Mode Power Supplies

The Protector is designed for switch mode power supplies, computer loads, with no derating, drawing sine-wave input current that is power factor corrected.

Display (local and remote)

The Protector provides one of the most comprehensive monitoring packages. Its 4 line X 20 character backlit LCD panel continuously display and monitor vital power line conditions and status of the unit.

Global Monitoring System (GMS)

The Protector can communicate with computers, and serial devices via its local RS232/RS485 ports standard on every model making PROTECTOR compatible with today's most popular devices. Optional dry contacts are also available for remote monitoring and annunciation. GMS options includes dial-up modem, fax, alpha pager, beeper, email, and internet web page for monitoring or retrieving event logs and system status information.

Alarms

The Protector offers local alarm and optional remote display with sound alert (including unit status). It also offers most extensive method of remote alarm notification via pager, email, fax, voice annunciation and website. The system can advise multiple recipients.

Small Footprint Cabinet

The Protector requires less floorspace than most other UPS systems and Stackable Cabinet Rack are available as an option for more space savings. Its compact, lightweight design saves overall space, facilitates handling, and keeps shipping costs to a minimum.

Sine-Wave Power 21st Century

The Protector delivers computer-grade, sine-wave power; the preferred power source for all electronic equipment.

Isolation, Including Output Neutral To Ground Bonding

The Protector provides the galvanic electrical isolation required by FIPS PUB 94 (Federal Information Processing Standard) and it qualifies as a true, separately derived power source as defined by the National Electrical Code, Article 250. This isolation allows the Protector to offer excellent RF noise filtering and single point grounding for sensitive electronic equipment (standard on all models with different input/output voltages). Optional harmonic tolerant transformer (up to K-50) for today's switching equipment is available.

Distribution (optional)

Normally On and OFF Output breakers are available with optional trip alarm as well as customer selectable time delay.

Safeguard™ Battery Management System

OnLine Power has designed (patent pending) a process for the real time ability to charge and monitor the battery system. This system utilizes a microprocessor technology to monitor the batteries critical levels and apply charging cycles in a method substantially increasing battery life.

Listed to
UL1778 and UL924A by CSA

Advanced, High Frequency
Technology for Non-Linear Loads

Built-in Load Distribution

90% Efficiency (typ.)

Power Factor and Energy Efficient
Ballast

Inverter Test Switch

Pulse Width Modulated (PWM)
Sinusoidal

Generator Compatible with
Automatic Governor
max 2Hz per second

Global Monitoring System (GMS)

Double Conversion Technology

Certified Zone 4 Seismic Bracket

1 Year Warranty

PROTECTOR 3 SPECIFICATIONS

Power Rating: 10, 15, 20, 25, 30, 40, 50, and 62.5 KVA

Input Voltage: 208Y/120 or 480Y/277 VAC (-20% to +15%)

Output Voltages: 208Y/120 or 480Y/277 VAC

Output Frequency (Inverter Operation): 60 Hz \pm 0.5 Hz

Voltage Regulation: \pm 3%, Regulated within CBEMA curve

Output Wave Form: Sine-Wave < 5% THD.

Efficiency: 90% Typical

Crest Factor: 3:1 Typical

Surge Protection (optional):

The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A & B.

Isolation:

Complete from line. Output neutral bonded to ground

Noise Isolation:

-120 dB Common-Mode;
-60 dB Transverse-Mode

Battery: Sealed, maintenance-free (AGM) battery

Recharge Current: Conforms to UL Standards

External Battery: Provisions for hardwire connection of optional external battery cabinets or DC source.

Environmental:

Humidity: 0 - 95% RH w/ no condensation

Operating Temperature: UPS: 0° to 40°C. (32 -104°F)
Battery: 20° to 30°C. (68°-86°F)

Storage Temperature: -20° to 60°C. (-4°-140°F)

Altitude: Up to 10,000 ft

Safety Agencies:

Listed to ULI 778, UL924A by CSA

UPS Cabinet Sizes:

39" Wide x 18" Deep x 68" High

Battery Cabinet Sizes:

39" Wide x 18" Deep x 68" High

STANDARD FEATURES

- Back-lit LCD Display for monitoring
- RS 232 & RS 485 ports for metering, measuring and diagnostic.
- System pre-wired for optional Global Monitoring System (GMS)
- High Frequency PWM with Digital Signal Processing Technology
- Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)
- Input and Output Circuit Breaker
- Inverter Test Switch
- Battery Breaker
- Double Conversion Technology
- Stackable Cabinets
- Modular Assembly for ease of Installation and Maintenance

OPTIONS

- Secondary Auxiliary Circuit Breakers: Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Form 'C' Contacts (5 N.O.)
- Secondary Normally On/Off Terminal Block selection
- Remote Status Display Unit with Audio Alarm and Silence Switch
- Local Audio Alarm with Silence Switch
- Input Current Harmonic Filter, 10% & 5% (Not available with Secondary Auxiliary Circuit Breakers)
- Make Before Break External Maintenance Bypass Switch (wrap around type)
- Main Input and/or Output Circuit Breaker (with custom KAIC)
- Built-in Secondary Distribution
- EMI Filter
- Input Transient Voltage Surge Suppressor (TVSS)
- Harmonic Tolerance (up to K-50)
- Stackable Cabinet Rack to save floor space
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Spare Part Kits Available
- Long Life Battery

Global Monitoring System (GMS)

- LOCAL**
- Local PC via RS232 and RS485
 - Event logging up to 500

REMOTE

- **Dial-up**
 - Voice (10 event logging), numeric pager
 - Voice, data, fax, pager, PC, e-mail, event logging up to 500
 - Voice, data, fax, pager, PC, e-mail, and measurement (500 event logging plus graphic)
- **Web/SNMP:** System status, measurement, alarm notification, event logging and password protected configuration.

Consult Factory for more features and choices of remote communication.

KVA/KW	INPUT - OUTPUT	KVA Model Number	DC Volts	BTU/Hr	*Battery Back-up Time	UPS Cabinet Weights	**Battery Cabinet Weights
10/8	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT010B0500T3-VA PT010H0900T3-VA PT010H0500T3-VA	192	3032	5 - 60 minutes	(1 Cabinet) 1083 lbs	(1 Cabinet) 1612 lbs
15/12	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT015B0500T3-VA PT015H0900T3-VA PT015H0500T3-VA	192	4549	5 - 60 minutes	(1 Cabinet) 1446 lbs	(1 Cabinet) 1870 lbs
20/16	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT020B0500T3-VA PT020H0900T3-VA PT020H0500T3-VA	192	6066	5 - 30 minutes	(1 Cabinet) 1679 lbs	(1 Cabinet) 1679 lbs
25/20	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT025B0500T3-VA PT025H0900T3-VA PT025H0500T3-VA	192	7582	5 - 45 minutes	(1 Cabinet) 1679 lbs	(1 Cabinet) 1612 lbs
30/24	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT030B0500T3-VA PT030H0900T3-VA PT030H0500T3-VA	288	9098	5 - 45 minutes	(1 Cabinet) 1719 lbs	(1 Cabinet) 2670 lbs
40/32	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT040B0500T3-VA PT040H0900T3-VA PT040H0500T3-VA	312	12131	5 - 30 minutes	(1 Cabinet) 2066 lbs	(1 Cab.) 3338 lbs
50/40	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT050B0500T3-VA PT050H0900T3-VA PT050H0500T3-VA	552	15164	5 - 60 minutes	(1 Cabinet) 2463 lbs	(2 Cabinet) 1 x 2670 lbs 1 x 2470 lbs
62.5/50	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PT062B0500T3-VA PT062H0900T3-VA PT062H0500T3-VA	552	18000	5 - 30 minutes	(1 Cabinet) 2565 lbs	(2 Cabinet) 1 x 2284 lbs 1 x 2116 lbs

* For longer battery back-up times, select Power Wave 3 models or consult factory.

** Total weight for longest battery backup times unit of each KVA model.

Cabinet weights are with standard battery.

Recommend Power Wave model for longer battery run times.
Contact Factory for other Power Rating, Voltages, Frequencies, and Back-Up Times.

Specifications are subject to change without prior notification.

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Los Angeles, CA
Phone: (800) 227-8899
Fax: (323) 721-3929
www.onlinepower.com