INTELLIPower
High Reliability in Demanding Environments

IN T E L L I G E N T  P O W E R
Rugged Uninterruptible Power Protection and Conversion Systems
Uninterruptible Power Systems

Online/Double Conversion UPS solutions offer flexible features, modular configurability, hot swap batteries and cost-effective customization.

Voltage/Frequency Converters

Supports the need to convert varying input AC voltages and varying input frequencies to different output voltages and frequencies. Also conversion of DC to AC and AC to DC.

External Battery Packs/Modules (EBP or EBM)

Provides expanded battery run times for UPS with internal batteries. Supports battery run time for certain UPS power modules that do not include internal batteries.

Power Conditioners

All the features and benefits of a UPS, aside from battery backup. When lower weight or lower costs may be a requirement in your specifications, consider a power conditioner.

Power Distribution Units (PDU)

PDUs distribute output power. Eight versions are currently available. Each output receptacle has its own combined On/Off switch and magnetic hydraulic circuit breaker with flip-top covers to avoid accidental operation of switches.

External Battery Chargers

High rated External Battery Chargers are used mostly for larger batteries and for greater quantities of batteries in parallel requiring a more powerful charger than the internal UPS battery chargers.

Founded in 1988, IntelliPower designs, manufactures and supports high performance, cost effective, digital intelligent and reliable power protection systems for harsh environments. All products are developed by IntelliPower hardware and firmware engineers, manufactured in the U.S.A. with our ISO 9001:2008 Quality System and are successfully installed around the globe.

IntelliPower is the largest and most successful supplier of high reliability, rugged UPSs for the military. We are the UPS vendor for large DoD programs such as Win-T for the Army, CANES for the Navy, DDS-M for the Marines and UAV controller support for the Air Force, Army, Navy and many others.

IntelliPower is also the industry leader for industrial applications and mission-critical or special commercial applications requiring, galvanic isolation, global power input and innovation, offering the largest range of UPS products available with the most flexibility.
IntelliPower offers hundreds of existing standard enclosures with rugged steel, aluminum or powder coat, for rack mount, free standing tower, outdoor and wall mount applications. In addition to its extensive library of standard models, IntelliPower is capable of efficiently designing new enclosures for users who have their own specific requirements.

### MULTIPLE MOUNTING CONFIGURATIONS/ENCLOSURE TYPES

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1U Rack Mountable</td>
<td>Vertical / Free Standing</td>
</tr>
<tr>
<td>2U Rack Mountable</td>
<td>Wall or Bulkhead (Also offered with external and internal shock isolation.)</td>
</tr>
<tr>
<td>3U Rack Mountable</td>
<td>Pad or Pole Mount &amp; NEMA Cabinets</td>
</tr>
<tr>
<td>4U-5U-6U Rack Mountable</td>
<td>Free Standing Rack Towers w/Lifting Eyes</td>
</tr>
<tr>
<td>8U Modular/Rack Mountable</td>
<td>Portable Briefcase Units</td>
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</table>

Also offered with external and internal shock isolation.

Sealed IP65
4 DOUBLE CONVERSION ON-LINE UPS FEATURES

Power Conditioning
Filters & conditions the AC line to support military and commercial transient and emissions standards.

Voltage & Frequency Conversion
Transforms multiple input voltages and frequencies to various output voltages and frequencies.

Connector Options
NEMA, IEC, Circular Mil, Terminal Block, Pigtail

Battery Charging
VRLA, Pure Lead Acid, LiFeO4 Chemistry

Battery Options
Internal, Hot Swap Drawers, External Battery Packs

Safe Shutdown & Communications
Software Options
- Windows, Linux, UNIX & FreeBSD
- Microsoft Hyper-V, VMware ESX, VMware ESXi Virtualization Software
- SNMP, Ethernet/IP, CIP, RS232/USB & Dry Contacts

Multiple Inputs
- 120/240, 115/230, 90-264, 208, 440 VAC
- 47-440 Hz
- Single or Three Phase AC
- DC, DC/AC

Multiple Outputs
- 120/240, 115/230, 208 VAC
- Selectable or Fixed
- 50/60 Hz
- Single Phase AC
- DC, DC/AC
SYSTEM REQUIREMENTS & BATTERY CHEMISTRIES

Battery Chemistry Options

**Lithium Iron Phosphate**
- Temperature range is -40°C to 60°C
- Very lightweight - 1/3 of the weight of lead acid batteries
- Delivers approximately 2 to 2.5 times the backup run time for equal physical size
- Delivers up to 10 or more times the discharge-charge cycles vs. lead acid
- Retains up to 8 times the capacity after 12 months storage at 20°C to 60°C
- Excellent safety performance - contains non-toxic materials and does not experience thermal runaway
- Other lithium chemistries are volatile and require expensive battery management systems (BMS).

**Pure Lead Acid**
- Widest operating temperature range from -65°C to +80°C
- Good full-cycle capability and experiences less “dry out” failure mode from repeated recharges
- Offers a longer float life than standard lead acid
- High stable voltage delivery from low internal resistance
- Fast recharge without loss of capacity or electrolyte
- Cost is similar to lithium iron phosphate

**Lead Acid**
- Temperature range -20°C to +50°C
- Low cost - inexpensive compared to other batteries
- Durable and provides dependable service
- Unrestricted transport - D.O.T. approved for all land, sea and air transport
- Mature, reliable, well-understood technology

Environmental
- MIL-STDs: 461F, 704E, 810G, 901D, 464C, 1399-300B, 1275D & 167-A
- IP65/Sealed weatherproof UPS
- Outdoor applications: rain, humidity, fungus, salt fog and blowing sand/dust
- Poor power quality from generators and other power sources
- Extreme high and low temperatures (-40°C to +65°C)
- High shock & vibration

Functional
- Multiple voltages & frequencies
- Global AC inputs
- Galvanic isolation
- DC inputs and outputs
- Single & 3-phase inputs
- Extended battery run times
- LiFeO₄, Pure PbA & VRLA battery chemistries
SYSTEMS MANAGEMENT

Powerful safe shutdown and communications software for use with IntelliPower UPS and power conversion systems are available.

- Windows
- Linux
- UNIX
- FreeBSD
- Microsoft Hyper-V
- VMware ESX/ESXi

- SNMP
- Ethernet/IP, CIP
- RS232/USB
- Dry Contacts
- Special Optional Controls

INTELLIPOWER BACK-UP POWER PROTECTION

Mission Critical Systems

Agent 1
Agent 2
Agent 3

Generator
Utility

MONITOR AND CONTROL

Router / Firewall

Internet

Remote Operation Station 1
Remote Operation Station 2

Local Operation Station 1
Local Operation Station 2

UPS 1
UPS 2
UPS 3

Event & Schedule-Based Shutdown

Event & Schedule-Based Shutdown

Generator
Utility

MONITOR AND CONTROL

Router / Firewall

Internet

Remote Operation Station 1
Remote Operation Station 2

Local Operation Station 1
Local Operation Station 2

UPS 1
UPS 2
UPS 3

Event & Schedule-Based Shutdown

Event & Schedule-Based Shutdown

Generator
Utility
WHY INTELLIPOWER SOLUTIONS FOR YOUR MISSION-CRITICAL APPLICATIONS?

- Modular “building block”, intelligent digital design offers the ultimate flexibility in tailoring products to meet your needs.
- All systems designed, manufactured and supported by IntelliPower engineers in the U.S.A.
- Products are field proven since 1988.
- Financially strong to support growth and customer service.

- Removable/hot swap battery drawers.
- Lithium iron phosphate, pure lead acid and lead acid battery chemistry options.
- IntelliPower developed, innovative, reliable electronic hardware, embedded firmware and enclosure technology.
- Global input voltage and frequencies.

“IntelliPower is totally committed to complete customer satisfaction.”
- Bill Shipman, CEO

At IntelliPower, we are fully committed to providing the highest level of service and support to each one of our customers. Experienced and knowledgeable team members are ready to assist in the selection of the best product(s) to address your requirements.

• Pre-Sales Application Assistance
• Technical Support
• Warranty Repair
• Extended Warranties
• Out of Warranty Repair

SERVICE AND SUPPORT

The UPS supplier to the U.S. Navy CANES, SEWIP and LCS Programs, CVNs, UAV support and many others.

The UPS supplier to the U.S. Army’s four core programs: Win-T, DJC2, Trojan Systems and MC4.

The UPS supplier to the U.S. Marine Corp’s TDN DDS-M program.

Key UPS supplier to many UAV remote controller systems for the U.S. Air Force, Army, Navy and Marines.
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All products designed, manufactured and supported in the U.S.A.

ISO 9001: 2008 certified facility

Military standards