Medical Grade UPS System

CT Scanner • MRI • Cath Lab • Linear Accelerators
Nuclear Medicine • PET Scanners
Mammography • PACS • Ultrasound

MED-POWER

Battery Back-up System
UL60601-1

Small Footprint Design for Medical Application
Digital Signal Processing Technology
Instant Protection against Power Spikes, Swells, Sags
Superior Sub Cycle Voltage Stabilization of 1%
Independent Phase Control
Seamless Redundant Power Paths
Service without Shutdown
Advanced Remote Monitor
Expandable Battery Back up
12 pulse Harmonic Reduction
Intelligent charger with temperature compensation
Intelligent Safe Battery Test Circuitry
Intelligent Fan Speed Control
Low Heat Dissipation
Front Service Clearance Only
Battery Monitoring System
Fully Modular for Quick Service
Light Weight, Easy Installation, Plug & Play
LCD panel with 24 LED status and alarm indicators
Support Complex Power Factor Loads
User Friendly Proven Technology

The new generation MED-POWER UPS product line is the smallest and most effective system available for the protection of medical imaging equipment and linear accelerators. The double conversion technology uses advanced Digital Signal Processing to ensure stable power to the load. The OnLine Power design offers the tightest voltage regulation and lowest harmonics under any load condition. Should the utility power fail, MED-POWER provides uninterrupted output power to your critical medical equipment. The MED-POWER UPS products are perfect for the dynamic characteristics of CT's, Linear Accelerators, MRI's, Cath Labs, and Ultrasound equipment.

Protect your Medical Equipment

- Increase the Reliability
- Increase the Lifespan
- Be Alerted to Power Problems
- Continue to Work
- Reduce Power Related Service Costs

OnLine POWER

MED-POWER SPECIFICATIONS

Input

Voltage (Nominal)	480 VAC, 3ø, 3W + Gnd
Voltage Range	+20%, -20% (without batteries)
Frequency	50/60 Hz ±5Hz
Protection	Auto & Maintenance Bypass

Output

Power Rating	10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 120, 160, 200 kVA (consult factory for other sizes)
Power Factor Rating	0.8
Voltage	480 VAC, 3ø, 4W + Gnd
Crest Factor	3:1
Voltage Regulation	±1%
Dynamic Regulation	±2% for Step Load
Phase Imbalance	V thd <2%
Frequency Stability	±1%
Overload Rating	150% for 30 Seconds, 125% for 15 minutes
Neutral	Newly Derived and Bonded to Earth

System

Configuration	Three Phase UPS modular design for easy of service
Topology	Advanced Double Conversion
Technology	Redundant DSP, microprocessor
Efficiency	92% typical
Bypass 1	Static Reverse
Bypass 2	Internal Maintenance
Audible Noise	≤67 dBA at 1 Meter
Cooling	Intelligent speed controlled Forced Air
Heat Dissipation	6600 BTU Typical

Battery

Battery Time	15 Minutes standard (longer available, consult factory)
Battery Type	Maintenance Free
DC Nominal Voltage	348 VDC
Protection	Safety Circuit Breaker
Charger	Programmable, Temp Compensated
Maintenance	Front Access

Communications

Interface	RS485, RS232, Relay Contacts
Display	Front Mimic Panel LCD (4 lines X 40 Character backlit LCD)
Audible Alarm	Yes / Programmable
Emergency Shut Down	Local & remote Capability (optional)
Network Capable	Yes (optional)

Global Monitoring System (Option)

LOCAL: Local PC via RS232 and RS485

REMOTE: Web/SNMP and Dial-up

Physical

Cabinet Dimensions	44"W x 31.5"D x 63"H (w/Batteries)
Electrical Connection	Front Access
Cable Entry/Exit	Bottom
Service Clearance	Modular design for ease of service (Front Only)
Operating Temp.	0°C to 40°C (32° to 104°F) (control cabinet), 25°C (77°F) (battery cabinet)
Seismic Anchoring	Mounting Brackets (optional)

Applicable Document

Surge	IEEE 62.45, ANSI C62.14
ESD	IEC 801.2
RF Interference	FCC Article 15, Section J, Class EN50091-1 & 2
Medical	**IEC 60601-1**
Isolation	UL 60601-1, UL 260 1-1 (pending)
Seismic	Zone 4 (with Optional Bracket)
Power Safety	Certified to UL 1778, CUL 22.2
NEC	Article 250 d
Energy Star	C & I Transformers

Agencies

UL	Underwriter Laboratory
CE	Consultants Europe
CUL	Canadian Underwriter Laboratories
ANSI	American National Standards Institute
FCC	Federal Communication Commission
NFPA 70 - NFPA70E	National Fire Protection Agency
IEEE	Institute of Electrical Engineers
NEC	National Electrical Code Health Care Facilities 517

Note: These specifications impose additional constraints on the product addressing such details as construction, size, operational interface and system performance. The information is intended to supplement the requirements imposed by U/L IEC60601-1-2003, which are the guiding and governing documents in all matters concerning this product.

Due to continuous improvement, specifications are subject to change without prior notification.

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