

## MedStar Medical Grade UPS

### *Model CPE160M Three Phase UPS*

#### *Protects MRI & Cath Labs*

#### Features

- Small Footprint
- Medical Grade Design
- Instant Protection against Power Spikes, Swells, Sags
- Superior Sub Cycle Voltage Regulation
- Redundant Controls
- Service without Shutdown
- Advanced Monitor
- Remote Monitoring
- Low Harmonics
- Light Weight
- Low Heat Dissipation
- Front Service Clearance Only
- High Efficiency
- Easy Installation
- Mimic panel with 24 LED Status and alarm indicators
- Supports Complex Power Factor Loads

The Critical Power Exchange MedStar Medical Grade UPS is the smallest and most effective system available for the protection of medical imaging equipment and Cath Labs. The double conversion, on line, UPS ensures that the purest possible power is delivered to your equipment. The CPE design offers the tightest voltage regulation and lowest harmonics under any load conditions. The medical UPS is perfect for the dynamic characteristics of MRI's and Cath Lab.



### Protect your Equipment

- \* *Increase the Reliability* – Reduce Service Costs
- \* *Increase the Lifespan*- Maximize Your Investment
- \* *Be Alerted to Power Problems* –Knowledge is Power
- \* *Save Data Files*- Don't lose your work
- \* *Continue to Work* – No Down Time
- \* *Reduce Power Related Service Costs*

Critical Power Exchange

[www.criticalpower.com](http://www.criticalpower.com)

877-315-4176

**Model CPE160M THREE PHASE UPS****INPUT**

Voltage (Nominal) ①	480 VAC, 3Ø, 3W + GND
Voltage Range	+20%, -20% (without batteries)
Frequency	50/60 Hz
Protection	Main, Bypass and Maintenance Breaker

**OUTPUT**

Power	160 kVA- (Imaging Surge Rated)
Power Factor Rating	0.8
Voltage ①	480 VAC, 3Ø, 4W + GND
Crest Factor	3:1
Voltage Regulation	±1%
Dynamic Regulation	± 2% for Step Load
Harmonics	V THD <2%
Phase Imbalance	120° ± 0.5° (any line or load condition)
Frequency	60 Hz ± 3% sync to input
Frequency Stability	± 0.1%
Overload Rating	150% for 20 Seconds
Neutral	Newly Derived and Bonded to Earth

**SYSTEM**

Configuration	Modular Three Phase UPS
Topology	Double Conversion
Technology	Redundant DSP, uProcessor
Efficiency	93%
Bypass 1	Static Reverse
Bypass 2	Internal Maintenance
Audible Noise	55 dBA at 1 Meter
Cooling	Controlled Forced Air
Heat Dissipation	6600 BTU Typical

**BATTERY**

Battery Time	15 Minutes Operation Typical
Battery Type	Maintenance Free
Battery Capacity	29 Batteries
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
Audible Alarm	Yes / Programmable
Emergency Shut Down	Local & Remote Capability
Network Capable	Yes (optional)

**PHYSICAL**

Cabinet Dimensions	66"W x 31.5"D x 63"H
	Includes Batteries
Cabinet Weight	3250 lbs.
Electrical Connections	Front Access
Cable Entry/Exit	Bottom
Service Clearance	Front Only
Operating Temperature	0° C to 30° C (control cabinet)
	25° C (battery cabinet)
Seismic Anchoring	Mounting Brackets (optional)

**COMPLIANCE TESTED**

Surge	IEEE 62.45, ANSI C62.14
ESD	IEC 801.2
RF Interference	FCC Article 15, Section J, Class A
Medical	IEC 60601-1-1
Isolation	U/L 60601-1, U/L 260 1-1
Voltage Let Through	U/L 1449
Seismic	Zone 4
Power	U/L 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 Electric 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.

**Note:** These specification are subject to change without notice at any time.

①Specify at time of order

②Allow 2 inches rear clearance for air