



PCDU-XT150 & PCDU-XT150LP

POWER CONDITIONERS FOR CT & X-RAY SYSTEMS

POWER QUALITY FOR HIGHEST IMAGER PERFORMANCE

Modern CT and X-Ray imagers are very high performance systems, demanding very high performance from the power line. To enhance imager performance, the PCDU-XT150 (& PCDU-XT150-LP) provides the clean power necessary to enable the highest system uptime & performance at an affordable cost. The PCDU is a self-contained unit that provides voltage conversion, impedance control, high-energy filtering, surge suppression, & voltage distribution for CT and X-Ray systems.

COST-SAVINGS WITH THE PCDU

Power related problems are a known cause of unscheduled downtime, from the nuisance of electronic systems “locking-up”, to total system failures due to damage by transients and power anomalies. By pro-actively removing these power disturbances before they occur, you can realize significant cost reductions by eliminating expensive emergency repairs, premature system failure and unscheduled system maintenance and downtime.

SITE PREPARATION SIMPLIFIED

Site prep is greatly simplified and installation costs are reduced since the PCDU is a single box solution. Wiring costs are reduced significantly since the PCDU accepts a single mains input. Room aesthetics are also improved since the PCDU is housed in a compact, attractive enclosure.

PCDU FEATURES

The PCDU utilizes a shielded isolation transformer coupled with high energy filter circuitry and surge suppression technology to ensure that fluctuations in the facilities power will not adversely affect your imaging system.

What the PCDU-XT150 (and PCDU-XT150-LP) provides includes:

- 200VAC through 480VAC 3-phase input (60Hz).
- A single mains input source for your imaging system, reducing the cost of electrical site preparation dramatically.
- A clean single point ground derived from the patented isolation transformer.
- Voltage conversion and distribution to eliminate the need for multiple voltage feeds into the same room.
- Patented noise and transient filtering and suppression, significantly reducing the possibility of equipment damage.
- A small footprint design, reducing cost of valuable floor-space.
- Guaranteed performance and compatibility.
- UL listed product for guaranteed safety, quality and ease of electrical inspection.

TEAL ELECTRONICS CORPORATION
CONTACT: TOM FISHLER
MEDICAL ACCOUNTS MANAGER
262.827.9101



PCDU-XT150 SPECIFICATIONS

MAXIMUM PROTECTION FROM INCOMING (LINE SIDE) NOISE

TEAL's patented TEALwave® high energy filtering and surge suppression are built in, providing better protection against voltage spikes (normal-mode noise) than with field assembled systems. The isolation transformer's high-performance shield protects against ground line impulses (common-mode noise).

With a worst case power disturbance as defined by the ANSI/IEEE Standard C62.41 6000V 3000A Capability Category B Impulse applied to the input, less than 80% above sine wave peak of the line voltage will be let through to the outputs. Less than 20V of the 6000V Category A Ringwave will pass through to the outputs. Effective filter attenuation is greater than 100dB @ 100kHz and 150dB @ 1MHz, as measured into 50 Ohms.

MAXIMUM PROTECTION FROM LOAD GENERATED (OUTPUT SIDE) NOISE

Today's electronic loads take their current in short bursts whose equivalent frequency is up to 1kHz. This power conditioner has 10 times less transfer impedance than old technology isolation transformers at this same frequency. This ensures that electronic loads can be supplied with a minimum of voltage waveform distortion. Low impedance and tight load regulation minimize transients caused by load switching.

MODEL NUMBER:
INPUT VOLTAGE:
FREQUENCY:
MAIN OUTPUT:

PCDU-XT150 and **PCDU-XT150-LP**, respectively
200/208/240/380/400/415/440/480/500VAC 3-Phase Delta (4-wire)
60Hz
480/277VAC 3-Phase Wye (5-wire)

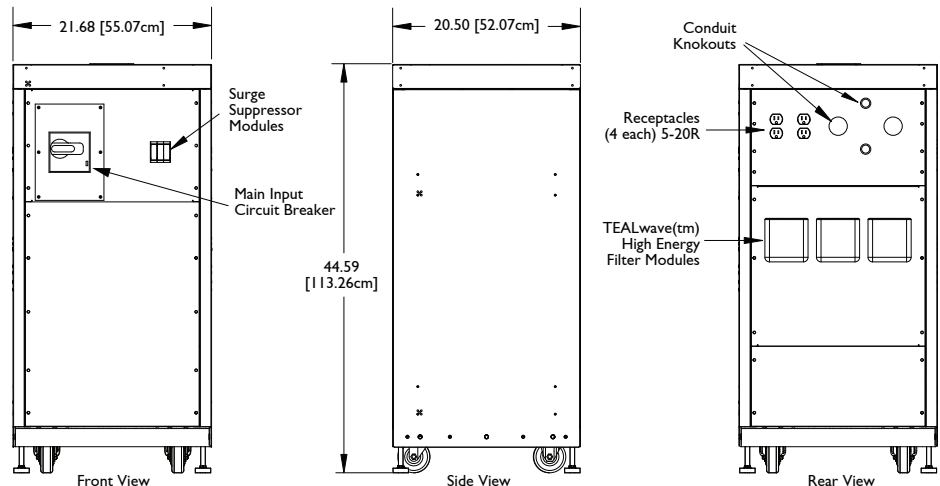
AUXILIARY OUTPUT:
60HZ IMPEDANCE:
LOAD REGULATION:
INPUT PROTECTION:

150kVA(i) (190A/ph) peak, 42A continuous for model XT150 and
100kVA(i) (120A/ph) peak, 42A continuous for model XT150-LP
120VAC 1-Phase, 20A Fuse protection, 2 each 5-20R Hospital Grade Duplex Outlets
< 0.06 Ohms L-N
< 1.8% at 150kVA(i) for model XT150, 100kVA(i) for model XT150-LP
Programmable Circuit Breaker

CONTROLS:
EFFICIENCY:
HEAT LOSS:
AUDIBLE NOISE:
AGENCY APPROVALS:

250A frame for model XT150, adjustable for 200VAC to 500VAC input
150A frame for model XT150-LP, adjustable for 200VAC to 500VAC input
Shunt-trip control of input CB (through terminal block) for remote Emergency Power Off control
>98.6% at full load
< 1950 Btu/hour at full load
Less than 50dB (A) audible noise measured at 1 meter
UL Listed to Standard 1012/187 for Power Supplies and X-Ray

PHYSICAL SPECIFICATIONS:



Contact: Tom Fishler
Medical Accounts Manager
262.827.9101

TEAL ELECTRONICS CORPORATION
10350 Sorrento Valley Road • San Diego, CA 92121
800.888.8325 • 858.558.9000 • Fax: 858.558.9500
WWW.TEAL.COM

