

MPTS - Heavy Duty Units

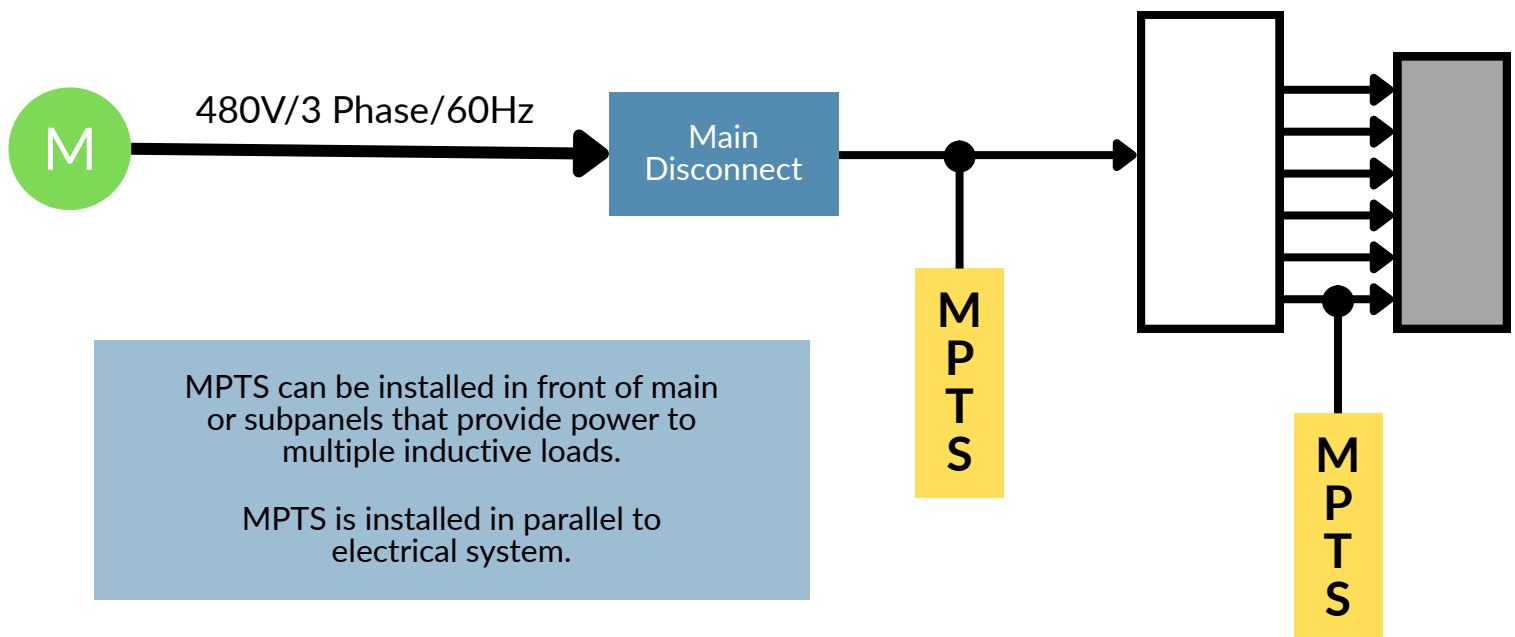
240A/480V/3Ph/200KVAR

Specifications

Model	: MPTS-H 240 - external CTs
Current Rating	: 240 Amperes
KVar Rating	: 200
Voltage Input	: 480V VAC 60Hz
Supply	: Three Phase
Configuration	: 3 Phase - 3 or 4 Wire
Cable Entry	: Top Entry
Control Operation	: Automatic switching based on load requirements.
Controller	: Electronic control system using a Microcontroller.
Displayed Data	: Voltage, Current, KVA, KVAh, KW, KWh, Hz, KVAR, PF
Display Meter	: Indicates RMS values.
Main Protection	: Short circuit and overload protection.
Bank Protection	: Short circuit and overload protection.
Construction	: Robust Standalone metal enclosure (indoor application only).
Dimensions	: 28 x 40 x 56 inches (Width x Depth x Height)
Estimated Weight	: 950 lbs. Net, 1,300 packaged.
Mounting	: Floor mounting with foundation bolts.
Enclosure	: Powder coated corrosion resistant sheet steel enclosure (RAL 7035)
Transient Protection	: Provided
Specifications	: May be updated with improvements.



Schematic Electrical Line Diagram for MPTS



Briefing Doc: MPTS Power Management System

The MPTS (Maximum Power Transfer System) is a power management solution designed to optimize electrical systems, reduce energy consumption, and improve power quality in commercial and industrial facilities. This document synthesizes information from various sources to provide a comprehensive understanding of MPTS technology, its benefits, target market, and acquisition options.

Key Features & Benefits:

- **Power Savings:** MPTS reduces electrical demand by 15-20%, translating to significant cost savings. This is achieved by optimizing power delivery and minimizing waste.
- **Improved Power Quality:** The system addresses issues like power surges, harmonics, voltage dips, and unbalanced phases. It cleans "dirty power" and provides surge protection, enhancing equipment lifespan and reliability.
- **Real-time Monitoring:** The system provides real-time data on kW, voltage, amperage, and kVar, allowing for easy monitoring and identification of potential issues and responsive mitigation.

Target Market:

MPTS is ideal for facilities:

- Consuming large amounts of 3-phase AC power (208VAC or 480VAC) - common in industrial, commercial, and institutional buildings.
- Utilizing Solar and or Battery Storage
- Utilizing inductive loads like motors, VFDs, PLCs, and UPS systems.
- Experiencing power quality issues like low power factor, harmonics, and voltage instability.
- Seeking energy cost reduction, lower CO2 emissions, and reduced maintenance expenses

How MPTS Works:

MPTS employs patented circuitry based on Jacobi's law to balance inductive loads and minimize reactive power waste. This, combined with harmonic filtration and voltage balancing, leads to improved efficiency and power quality.

Conclusion:

The MPTS power management system offers a comprehensive solution for facilities aiming to optimize their electrical infrastructure, save energy, and improve power quality. With its proven track record, ease of implementation, and various financial options, MPTS empowers businesses to operate more efficiently, sustainably, and profitably.

Nick Inchausti

Utility Reduction Solutions, Inc.

nick@UtilityReductionSolutions.com

