

TESTIMONIALS

MPTS Customers, Quotes, References and Stories

Customer Quotes

"Every ampere of current we decrease translates into reduction of heat and this is very important to us, MPTS helps us accomplish this."

– Brian, Certified Energy Manager, U.S. Air Force NORAD at Cheyenne Mountain Air Force Station (719)-474-3112

"Improved power quality in buildings is very critical to protect electrical and mechanical equipment and this is the reason we use MPTS."

- Andrew Olsen Resource Energy Manager U.S. General Services Administration (303)-236-5376

"When server room temperature increases we have to shut down the servers. MPTS on our HVAC chillers helps us ensure reliable cooling and protects our compressors from power surges and spikes."

- George Gielow Chief Operating Officer Aurora Mental Health Centers Colorado (303) 489-1167

"We were able to fund four roof-top air conditioning chillers with the savings from MPTS."

- Daniel Dawson, Chief Financial Officer Aurora Mental Health Centers, Colorado (303) 617-2345

"We would recommend the MPTS energy solution to any and all customers that have inductive or capacitive loads in their buildings, such as air conditioners, compressors, pumps, air-handlers, ballasted lighting, electric motors, or any other loads that create induction or capacitance. I cannot think of a building that would not have these devices serving them."

- Tony Gancer Vice President and Chief Engineer International Aid Services Worldwide (815) 354-3998

"It is unusual today to find product that dramatically out-performs the promises stated by the company promoting it. A refreshing change of pace in the corporate world!"

– Tony, Chief Engineer New United Inc. Electrical Contractors Streamwood, Illinois (815) 354-3998

Customer References

Robert Wynn, Chief, Energy Branch

Peterson Air Force Base

HQ AFSPC/A4/7PE

150 Vandenberg St., Suite 1105

Peterson AFB, CO 80914

Phone: 719-554-2741

Brian O’Leary, CEM

NORAD - Cheyenne Mountain

AFS USAF AFSPC 721 CES/CENP

Colorado USA

(719)-474-3112 brian.oleary.4@us.af.mil

Andrew Olsen

Resource Efficiency Manager

U.S. General Services Administration (GSA) One Denver Federal Center Building 41, Room 240

P.O. Box 25546

Denver, CO 80225-0546

303-236-5376

Dan Dawson, CFO

Aurora Mental Health Center

11059 E. Bethany Drive, Suite 200

Aurora, CO 80014

Phone: 303-617-2345 direct Fax: 303-617-2397 danieldawson@aumhc.org

George Gielow, COO

Director – Data Center

Aurora Mental Health Center

11059 E. Bethany Drive, Suite 200

Aurora, CO 80014

Phone: (303) 489-1167 direct

Fax: 303-617-2397

GeorgeGielow@aumhc.org

andrew.olsen@gsa.gov

Key Message Points

MPTS provides industrial, commercial and government organizations with cool, clean, conditioned power that reduces total current (Amps) consumption by 20% to 40%.

1. **MPTS (Maximum Power Transfer Solutions) creates conditioned electricity** that is fully used by the load (an electrical component or portion of a circuit that consumes electric power), without wasting any electrical power. It is the most efficient use of electrical power for inductive loads (such as transformers and motors that require electricity to operate).
2. **Conditioned Power is important** for three primary reasons:
 - It reduces total electrical current (Amps) consumption by 20% to 40%;
 - It increases the useful life of connected devices by up to 20%;
 - It reduces peak demand and thereby reduces the cost of electric power from the grid (an interconnected network for delivering electricity from suppliers/utilities to consumers).
3. **Conditioned Power is achieved and maintained** by the patented Maximum Power Transfer Solutions (MPTS) Technology. It keeps electricity cool, clean and conditioned by activating a dynamic, integrated response to instantaneous changes in electricity flow.
4. **MPTS Key Features and Benefits** include:
 - a) The avoidance of overload conditions and hot spots in panels and equipment;
 - b) Reduces total electrical power and current consumption
 - c) Decreases inductive load demand by 20% to 40%;
 - d) Decreases in I^2R , kVA_r and harmonics losses;
 - e) Does not introduce a parasitic load on the electrical network;
 - f) Reduction of electrical demand, total electrical power generation (KVA) and carbon footprint without the need to replace installed equipment;
 - g) Improves power factor; impedance matching, total harmonic distortion, and delivers voltage stabilization to a level greater than installed correction equipment; and, results in the reduction of total electrical power requirements
 - h) Requires very little service (the only moving parts are cooling fans)
 - i) Provides a dynamic integrated solution that performs all Power Quality Management Tasks In virtual real-time
1. **MPTS Financial Benefits** are significant – typically each \$200,000 investment in MPTS equipment returns \$100,000 to \$200,000 a year in cost savings.

FEATURES & BENEFITS COMPARISON	AUTOMATIC POWER FACTOR CORRECTION	HARMONIC FILTER/POWER CONDITIONING	UPS AND BATTERY BACK-UP SYSTEMS	VARIABLE FREQUENCY DRIVES	MPTS MAXPOWER TRANSFER SOLUTION
Reduces Power Consumption by 20% to 40%					X
Improves Power Factor	X	X		X	X
Improves Power Quality					X
Reduces Carbon Footprint				X	X
Decreases Amperes, (KVA, KVA _r , KVA _h , and KVA _r _h)					X
Decreases Total Harmonic Distortion (THD)		X			X
Does NOT Interrupt Power to the Load When Off					X
Increases Useful Life of Connected Equipment					X
Decreases Capital Costs					X
Decreases Service, Repair and Maintenance Costs					X
Increases Facility Wiring Capacity Due to Reduced Current					X
Adds Load or Capacitance or Harmonics to the System	X	X	X	X	

FEATURES & BENEFITS COMPARISON	AUTOMATIC POWER FACTOR CORRECTION	HARMONIC FILTER/POWER CONDITIONING	UPS AND BATTERY BACK-UP SYSTEMS	VARIABLE FREQUENCY DRIVES	MPTS MAXPOWER TRANSFER SOLUTION
Requires Programming and Significant Maintenance	X		X		
No Parasitic Load					X
Works on Balanced or Unbalanced Load Conditions		X			X
Decreases Downtime Costs Related to Electrical Power Issues					X
Electronic Solution - Consumes Less than 100w					X
Standard Models and Capacities			X		X
Can be moved to different Applications or Loads					X
Stabilizes Voltage					X
Reduces Switching Gear and Facility Wiring Heat					X

Customer Stories

There are several interesting stories regarding MPTS over the past five years.

- MPTS has helped customers save money on their bills.
- MPTS has helped reduce THD and unpredictable failures that were caused by increased THD.
- MPTS has made green buildings greener, by increasing the building electrical efficiency from 93 percent to greater than 95 percent.

- *MPTS has increase the overall factory's electrical efficiency from 73 % to 99 %, decreasing operating costs and lower utility bills significantly.*
- *MPTS has created increased electrical capacity for facilities by decreasing the electrical demand in buildings.*
- *MPTS has increased reliability of air-conditioning in data centers, increasing the productivity and decreasing downtimes.*
- *MPTS in Go-gen applications along with solar has created net zero buildings making Utility bills go away.*

Customers



Sample list of customers

- *Kaiser Permanente Hospital*
- *Underwriters Laboratory (UL)*
- *Aurora Mental Health Centers*
- *Fitzsimons Bio Science Research Center*
- *United States GSA - Federal Center and Courthouse Denver*
- *Approved for installation at US Air Force, Peterson AFB and*
- *Cheyenne Mountain Air Station*
- *DreamWorks Animation*
- *School Districts*
- *City and County Government*
- *Industries - Factories*