The Maximum Power Transfer Solutions (MPTS) are next generation power quality products that decrease the electrical demand, total electrical power generation (KVA), and carbon footprint, without replacing inefficient electrical and mechanical equipment in facility. The MPTS is patented in 28 countries and is a UL approved solution.

***Cool, Clean***

***Conditioned***

***Powertm***

MPTS is unique and innovative. It is an industry changing technology. The MPTS precisely senses the supply input and demand output, matches the impedance parameters, adjust the resonance of the resulting network loop, synchronizes and optimizes the output. This occurs at very high speeds in the device eliminating nearly all the wasted electrical power in the system. This significant reduces total electrical consumption and enhances THE electrical efficiency of the network to near unity.

Maximum Power Transfer Theorem (Jacobi's Law - 1840) focuses on increasing total electrical efficiency by decreasing losses using impedance matching.

When losses decrease, the phase angle is zero (0) and the power factor approaches unity (1)

When phase angle is zero (0) as a result of Impedance matching

KVA = KW and KVAH = KWH

When current decreases, power consumption will decrease

MPTS dynamically matches, optimizes and reduces the KVA requirements of connected loads which also decreases losses in an electrical network.

MPTS compliments and/or replaces Capacitors, Automatic Power Factor Correction systems (APFCs), Harmonics Filters, Power Conditioners, Voltage Stabilizers and Surge Protectors providing the next generation in power quality.

**MPTS FEATURES AND BENEFITS:**

1. **COMPETITION**: There are no products that directly compete with *TransPower’s* MPTS. Some power solution providers offer some MPTS features but none have a fully integrated system like MPTS.  No one competes for price either.
2. **CUSTOMER REFERENCES**: Several MPTS customers are willing to be reference customers.
3. **INSTALLATION HISTORY**: The first MPTS systems were installed in 2010. Most installations have been made during the last 3 years.
4. **LEAD TIME**: Standard MPTS units are usually delivered from inventory. Increase demand may create a 12 to 16 week lead time, especially for custom orders.
5. **LEASE FINANCING**: *TransPower* offers lease purchase financing through financing partners.
6. **MPTS BENEFITS:**
7. **Avoids Overload conditions** and hot spots in panels and equipment.
8. **Annual Return**: For every $200,000 investment the annual return is $100K to $150K.
9. **Decreases Current and electrical Demand (20 to 40%)** of inductive loads
10. **Decreases I²R losses**, KVAr and Harmonics
11. **Decreases total current requirements** for the facility
12. **Delays replacement** of mechanical equipment
13. **Typically extends useful life** of connected inductive equipment by 20%
14. **Minimizes and solves several electrical power issues** in the electrical networks
15. **Typically reduces service, repair, and maintenance costs by 25%** for inductive loads.
16. **LOW MAINTENANCE COSTS:** Routine annual inspections should be conducted. The only moving parts are small fans that cost less than $100 to replace, if all of them need to be replaced.
17. **NO INTERRUPTION**: MPTS is "Fail Safe" - no interruption to the connected load whether the MPTS is ON, OFF or down for maintenance
18. **PATENTED**: MPTS technology is patented in 28 countries. First Patent issued 12/2012.
19. **SCALEABLE**: *TransPower* technology scales up and down and operates at the same efficiency from 20 %t to 100 % of rated capacity.
20. **STANDARD MPTS** **SIZES**:
21. 100 Amp/480/3 phase,
22. 225 Amp/480/3 phase and
23. 450 Amp/480/3 phase.
24. 600 Amp/480/3 phase

The 225 Amp and 400 Amp models comprise about 80 % of sales.  Custom orders are available for other size/capacity requirements.