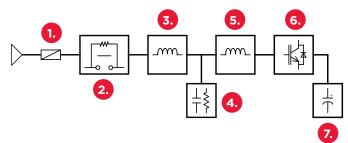
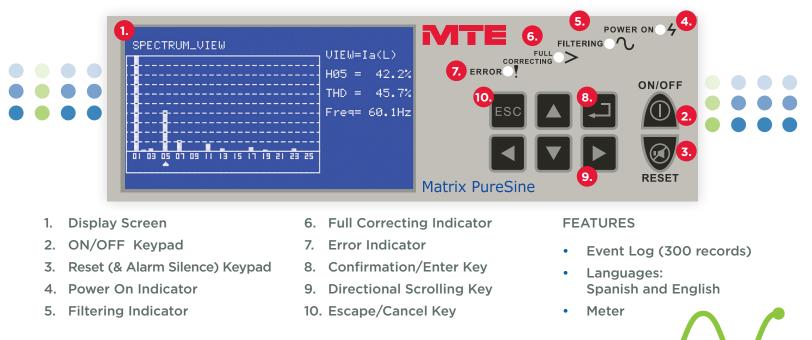
CONFIGURATION



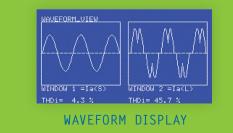
- 1. Main Fuse
- 2. Soft-start Electromagnetic Contactor Module
- 3. Link Inductor
- 4. Ripple Current Filter Module
- 5. High Frequency Inductor
- 6. IGBT Power Converter Module
- 7. DC Capacitor Module

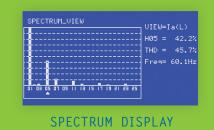
USER INTERFACE

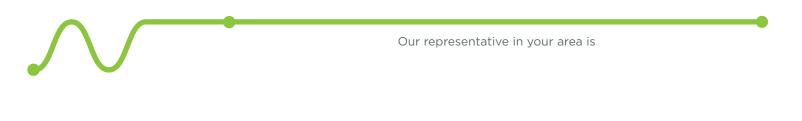


LOAD_	SIDE				
KVA =	272.3	Freg=	60.1Hz	PF =	0.83
Vab =	481 V	Vbc =	480 V	Vca =	483 U
THDv=	1.3%	THDv=	1.6%	THDv=	1.8%
Ia =	328 A		325 A		328 A
THDi=	35.1%	THDi=	34.2%	THDi=	35.7%

PARAMETERS DISPLAY







P: 800.455.4MTE (4683) F: 262.253.8222

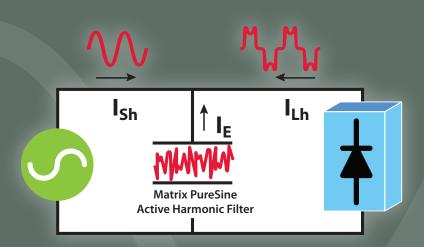
Form MPS-PSL-E June 2012 Supersedes Form MPS-PSL-E June 2011

N83 W13330 Leon Road, Menomonee Falls, WI 53051

Matrix **PureSine**

IMPROVE YOUR POWER QUALITY & ENERGY EFFICIENCY

MATRIX PURESINE® ACTIVE HARMONIC FILTERS FROM MTE ARE POWERFUL FILTERING SOLUTIONS FOR COORDINATED VARIABLE LOAD POWER FACTOR CORRECTION (PFC) AND HARMONIC MITIGATION.



WORKING PRINCIPLES.

Measure the harmonics current generated from the non-linear load.

Generate opposite phase shifted harmonics current of the same amplitude.

Cancel the loads harmonic current and then obtain a sinusoidal current in the facility.

FEATURES & BENEFITS.

- Less than 5% Total Demand Distortion (TDD)
- Eliminate Harmful Harmonics
- Compensation up to 51st harmonic
- Manage up to 12 harmonic signatures simultaneously

00 00 00 00

• Reduce Voltage Waveform Distortion

MTECORP.COM

- Correction of Leading or Lagging
 Power Factor
- Reduce Voltage Drops on Transformers & Cables
- Reduce Temperature Rise on Transformers & Cables

SITE SURVEY SOFTWARE

A site survey is an important first step in sizing and selecting a Matrix PureSine Harmonic Filter. Site survey software is available from most drive manufacturers. The software will provide information about the total amperage the filter must be able to handle.

SIZING SOFTWARE

Once the site survey is completed, the data collected are entered into MTE's sizing software to help determine the size and system configuration that will be required to effectively filter current for the selected site or application.

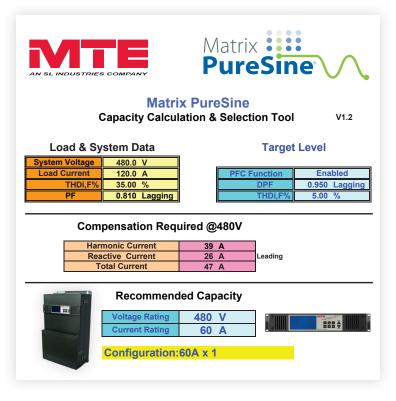
MODULAR SYSTEM CONFIGURATION

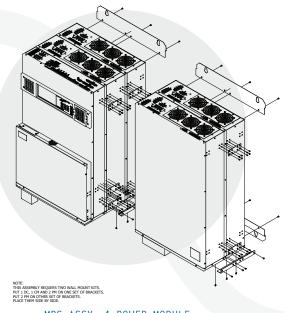
The system is modular and allows a user to "right" size a system for current need, while still having the option to increase capability as current loads increase.

Each Control Module can manage a DC Equalizer Module and four Power Modules.

Capacity is 480V 35A, 60A, 90A, 120A.

Up to eight Control Modules can work in parallel resulting in a Maximum 480V 960A Rating.

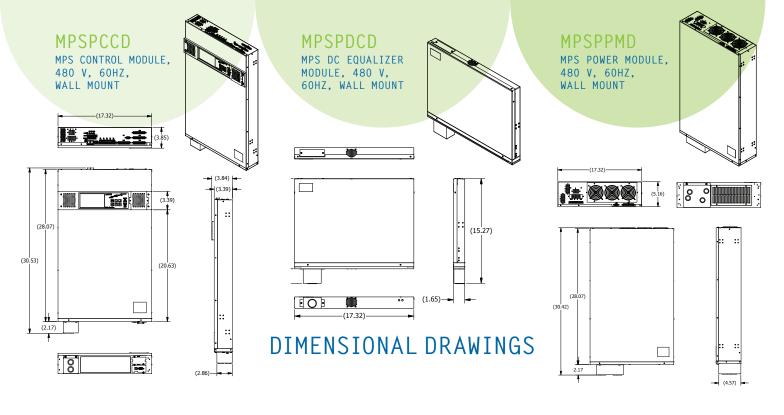




MPS ASSY, 4 POWER MODULE, 480 V, 60HZ, WALL MOUNT

SPECIFICATIONS

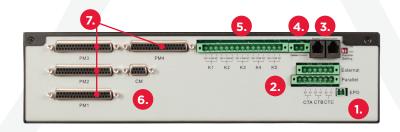
Operating Temperature	0 to 40°C
Input Voltage	480VAC
Input Frequency	60Hz
Phases/Wires	3 phase/3 wire
Harmonic Correction	2nd to 51st order
Power Factor Correction	0.7 lagging to 0.7 leading
CTs	3 required per system



SELECTION TABLE

Part Number	Description	
MPSPCCD	PureSine Control Module LCD, 480V, Wall Mount	
MPSPPMD	PureSine Power Module 35A/480VAC, Wall Mount	
MPSPDCD	PureSine DC Bus Equalizer, 480V, Wall Mount	
MPSCT500	PureSine CT 500/1A, Closed, 5VA	
MPSCT1000	PureSine CT 1000/1A, Closed, 10VA	
MPSCT2000	PureSine CT 2000/1A, Closed, 20VA	

Part Number	Description	
MPSCTBD	PureSine 5A/1A Auxiliary CT Board	
MPSCOMM2	PureSine Comm. Interface-2, RS485+RS422 Port	
MPSCOMM3	PureSine Comm. Interface-3, Ethernet (RJ45) Port	
MPSSOFT	PureSine SineSync Monitoring Software	
MPSWMK	PureSine Wall Mount Kit	



PHYSICAL CONNECTIONS

- 1. Emergency Power Off (EPO)
- 2. CT Connectors
- 3. Parallel Communication Ports
- 4. Input Dry Contact
- 5. Output Dry Contacts
- 6. Control Signal Cable 1 Connector
- 7. Control Signal Cable 2 Connectors

Response Time	<20 msec
Power Modules per Control Module	4
Control Modules per System	8
Correcting Current 480VAC	35 to 960A
User Interface	LCD
Dry Contacts	5 out, 1 in, 1 EPO
Standard Communication	RS232/USB

Optional Communication	RS485/RS422 or Ethernet	
Programmable	User Interface or Communication Software	
Max Heat - per Power Module	650W	
Max Heat - per Control Module	50W	
Form Factor	Wall mount	
Agency	EN60146, UL 508, cUL	

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