

PERFECTION

MI S2



Estabilizer Electronic

Digital Signal Processor



CM COMANDOS LINEARES®

ELETRONIC STABILIZER PERFECTION MI S2

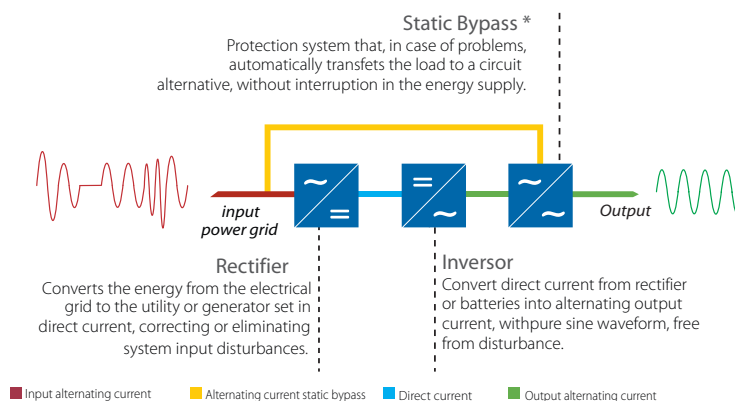
The Perfection MI S2 Microprocessor Controlled Voltage Stabilizers feature unprecedented dual static converter technology with last generation IGBTs modules.

Fully DSP - Digital Signal Processor controlled, the Stabilizer corrects any voltage variation in the power utility grid, eliminating harmonic distortion, frequency variations and electrical disturbances, creating a pure sine wave form, and thus delivering an exclusive and isolated stabilized line for sensitive applications.

DSP technology makes True RMS measurements due to digital sampling, with no deviation or delays, with high speed and reliability. This means that we can make ever smaller systems capable of performing more operations with high reliability.

All setups and settings are performed by software in the manufacturing and maintenance, even allowing firmware up grade. Another great differential is the ability to correct extreme load current variations, making them ideal for sensitive equipment that creates high current peaks and requires protection and established power.

DOUBLE CONVERSION ONLINE TECHNOLOGY



TECHNICAL DATA

Input

■ Voltage:

- Bivolt 110 and 220 V (automatic) 2 and 3kVA
- 220V (standard) 5 and 15 kVA
- 110 V (Optional)

■ Permissible variation: $\pm 20\%$ of nominal voltage

■ Frequency: 50 or 60 Hz

■ Permissible Frequency Variation: $\pm 6\%$

■ Settings: single phase: F + N + Tor F + F + T

Output

■ Voltage:

- 110 V (standard)
- 220 V (standard)
- 110 + 110 V (standard)

■ Available Power:

- 2 kVA
- 3 kVA
- 5 kVA
- 7,5 kVA
- 10 kVA
- 15 kVA

■ Static Regulation: $\pm 1\%$ nominal

■ Frequency: 50 or 60 Hz

■ Frequency Variation: $\pm 0,05\%$

■ Settings: single phase F + N + T or F + F + T

■ Waveform: Sine wave

■ THD Harmonic Distortion: Less than 1%, total

■ Crest Factor: 3:1

■ Power Factor: 0,7

■ Overload Capacity: 125% for 25s

■ Short-Circuit Protection: Yes

■ Short-Circuit Current: 2 x 1 nominal

Static Bypass*

■ Driver: Automatic DSP - Controlled

■ Transfer Time: 0 milliseconds (nulo)

■ Retransfer to Normal Mode: automatic

Electrical Protections

- Sub and Over Voltage Input and Output
- Overload and Short Circuit
- Over Temperature

Alarms

■ DSP - Processor Controlled

■ Types of Alarms:

- Sound:
 - » AutoCheck Boot
 - » Network Voltage Out of Range
 - » Output Overload
 - » Internal Stabilizer Fault
 - » Network Frequency Out of Range
- Signaling: Panel Status LEDs:
 - » Normal Network
 - » Normal Output
 - » Failure

Physical and Mechanical Features

- Compact Sizing
- Cabinet Structure:
 - Rack: steel, monobloc
 - Front Panel: High Strength ABS
 - Finishing: epoxy-powder paint in graphite color with heat and anti-corrosive treatment
- Isolation Transformer: with electrostatic shielding*

Operating Features

- Audible Noise: 55 dBA a 60 dBA at 1 meter
- MTBF (Mean Time Between Failures): 50 mil horas
- MTTR (Mean Time To Repair): 30 minutes
- Room Temperature:
 - Minimum: 0°C / Maximum 40°C
 - Recommended: 20°C - 25°C
- Relative Humidity:
 - 0% - 95% with no condensation
 - Recommended: 45% - 55%
- Altitude: up to 1000m
- Recommended Environment:
 - Indoor, Sheltered
 - Atmosphere: Clean, free of conductive particles, toxic, liquid and flammable gases
- Degree of Protection: IP-20

Model	Power kVA	Physical Sizing H x W x D mm	Weight kg
2000	2,0	620 X 200 X 600	41
3000	3,0	620 X 200 X 600	43
5000	5,0	620 X 200 X 600	47
7500	7,5	620 X 200 X 600	61
10000	10,0	790 X 400 X 775	119
15000	15,0	790 X 400 X 775	147

* Optional



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