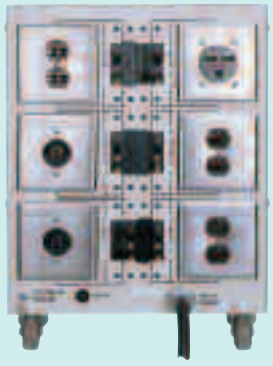
Single Phase Power Conditioner

UL Listed
1 to 15 kVA

- Modular/Compact
- Ready to "Plug & Play"
- Solid State Status Indicators
- Pays for Itself
- 6 Separate Output Circuits
- Regulation/Isolation Bypass Switch
- Cool, Quiet and Mobile
- Versatile/Flexible
- Easily Field Upgradable



When the Lights Go Out - We Turn On...

CRUCIAL POWER PRODUCTS

LIFE-LINE Regulator

Built to LAST

The conservative design and rating parameters of the Single Phase Life-Line permit it to attain an unprecedented 20 years of continuous operation. Designed to be first in quality, second to none in value and to last well into the 21st century.

Cost Effective

In the real world, regulators are typically loaded at no more than 65 to 80 percent of their power rating. Under these conditions, Life-Line technology is 20% more efficient than competing ferroresonant/ magnetic synthesizer technology. This means that at 7.5 Cents per KW, Life-Line efficiency will save at least $1,609 annually. This product will pay for itself in no time.

Convection Cooled Transformer

The Life-Line transformer is convection cooled. This is the fail-safe, highly effective means whereby the Life-Line maintains' a 220˚C insulation rating. Under full load and low line conditions, the system can operate in a 40˚C environment indefinitely while sustaining periodic 50˚C temperature rises.

Right Choice

The Life-Line is the right choice for those who want maximum flexibility. It may be powered via a hard-wired junction box or plugged into a standard electrical outlet. The caster base on the Max Series Life-Line provides ease of mobility. It may be equipped with most NEMA or Hubbell type receptacles. These receptacles may be installed on the back panel or at the end of Life-Line's liquid-tight, UL approved conduit in any length. Six LED's indicate at a glance which transformer tap is being selected by the SCR's for regulation.

A voltage spike of even a few milliseconds duration is enough to destroy data or equipment. That is why more and more business systems are relying on the Life-Line.

Powerful voltage irregularities, such as Common Mode and Transverse Mode noise, are cleaned up by the Life-Line's heavy-duty input and output filters. But most of the dirty voltage and noise never makes it to the output filters because they are snuffed out by the dual-shielded high-isolation transformer.

Voltage sags and surges are held up and mowed down by the transformer's six 3% taps. A bank of SCR's can be counted on to provide velvety smooth tap-switching with input swings from +10 to -26% of nominal. Switching only occurs at the zero current crossing of the AC cycle to deliver regulation without a hitch.

Crucial Power Products

Life-Line Regulator

Sizes	Mini; 1, 1.5, 2, 2.5, 3 kVA Max; 3, 5, 8, 10, and 15 kVA
Input Voltage	120 or 208,220,240 or 480 VAC
Output Voltage	120, or 120/240 VAC
Frequency	60 Hz. ±5%
Transformer Type	Single phase computer grade, dual-shielded, isolation transformer
Transformer Impedance	3 to 5%
Efficiency	96%
Load Power Factor	.3 leading or lagging to unity
Harmonic Distortion at Switching	1% Max.
Audible Noise	<35 dB. Measured on response curve "A"
Typical Noise Refection	Common-mode; -120 dB. Normal-mode; -60 dB/decade
Input Volt. Regulation Range	Mini; +7% to -23% of nominal Max; +10% to -26% of nominal
Output Volt. Regulation Range	Mini; ±5% typ. ±5% all line-load cond. Max; ±3% typ. ±4% all line load cond.
Cooling	Convection
Response Time	1 Cycle typical
Loading Rating	Continuous, regardless of load/line cond.
Overall Inrush Rating	200% at 10 seconds; 1000% at 1 cycle
Operating Temperature	32˚F. (0˚C.) to 104˚F. (40˚C.)
Storage Temperature	-4˚F. (-20˚C.) to 140˚F. (60˚C.)
Operating Humidity	10 to 95% Non-Condensation

Dimension	Height	Width"	Depth	
Mini Series	12”	6.5”	12”	
Max Series		19.5”	14.5”	25.5”

KVA SIZE	INPUT VOLTAGE	MODEL NUMBERS		WEIGHT LBs	BTUs/ HR
		120 OUTPUT	120/240 OUTPUT		
1	120 VAC 208VAC 240VAC	MI001A0100T1 MI001B0100T1 MI001D0100T1	MI001A0200T1 MI001B0200T1 MI001D0200T1	56	136
1.5	120 VAC 208VAC 240VAC	MI1.5A0100T1 MI1.5B0100T1 MI1.5D0100T1	MI1.5A0200T1 MI1.5B0200T1 MI1.5D0200T1	59	204
2	120 VAC 208VAC 240VAC	MI002A0100T1 MI002B0100T1 MI002D0100T1	MI002A0200T1 MI002B0200T1 MI002D0200T1	70	272
2.5	120 VAC 208VAC 240VAC	MI2.5A0100T1 MI2.5B0100T1 MI2.5D0100T1	MI2.5A0200T1 MI2.5B0200T1 MI2.5D0200T1	73	340
3	120 VAC 208VAC 220VAC 240VAC 480VAC	MX003A0100T1 MX003B0100T1 MX003C0100T1 MX003D0100T1 MX003H0100T1	MX003A0200T1 MX003B0200T1 MX003C0200T1 MX003D0200T1 MX003H0200T1	115	408
5	120 VAC 208VAC 220VAC 240VAC 480VAC	MX005A0100T1 MX005B0100T1 MX005C0100T1 MX005D0100T1 MX005H0100T1	MX005A0200T1 MX005B0200T1 MX005C0200T1 MX005D0200T1 MX005H0200T1	140	680
8	120 VAC 208VAC 220VAC 240VAC 480VAC	MX008A0100T1 MX008B0100T1 MX008C0100T1 MX008D0100T1 MX008H0100T1	MX008A0200T1 MX008B0200T1 MX008C0200T1 MX008D0200T1 MX008H0200T1	210	1,080
10	208VAC 220VAC 240VAC 480VAC	MX010B0100T1 MX010C0100T1 MX010D0100T1 MX010H0100T1	MX010B0200T1 MX010C0200T1 MX010D0200T1 MX010H0200T1	230	1,360
15	208VAC 220VAC 240VAC 480VAC	MX015B0100T1 MX015C0100T1 MX015D0100T1 MX015H0100T1	MX015B0200T1 MX015C0200T1 MX015D0200T1 MX015H0200T1	280	2,040

STANDARD FEATURES

- Caster Based Compact Cabinet*
- Single Phase Dual-Shielded Computer Grade Isolation Transformer
  Input; +10%, -26%*
  Output; +3% typ. +4% max.*
- Multiple Input Voltages* (208,220,240)
- 6 ft. Input Cable
- Main Input Circuit Breaker
- Regulation/Isolation Only Switch (Bypasses Regulation Electronics)
- Power ON Indicator
- Tap Selection Indicators*
- Output Distribution
- One NEMA 5-20R2 Receptacle
- 5 Local/Remote Receptacle Ports*
- Output Filter (-60 dB. per dec.)

OPTIONS

- K-Factor Rating
- Remote Emergency Power OFF (REPO) Station with 50 ft. Cable*
- Thermal Remote Emergency Power OFF (REPO) Station with 50 ft. Cable*
- Manual Restart*
- Locking Input Plug
- Matching Input Receptacle
- Shunt-Trip Main Input Circuit Breaker with REPO Plug*

* Max Series Only

Output Receptacles Rear Panel Configuration (Max Series)

Specifications are subject to change without prior notification.

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