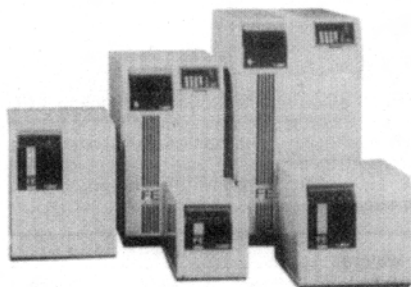


FERRUPS® UNINTERRUPTIBLE POWER SYSTEMS



Bulletproof power integrity for communications and large computer systems. AC input for FE500VA thru FE7KVA: 120/208/240 VAC (60 Hz) or 220/230/240 VAC (50 Hz) +15%, -20%; FE10KVA thru FE18KVA: 220/230/240 VAC at (50/60 Hz). RS232 port, full-duplex serial communication, alarm contacts, inverter contacts and remote emergency power off (REPO). Regulates voltage output to $\pm 3\%$ of +15% or -20% of line load. Single-phase UPS shipped with CheckUPS® II Suite power management software on CD-ROM, no additional charge. Typical battery recharge time of less than 18 hrs. Computer grade power sine-wave with 5% or less total harmonic distortion (THD) at rated KW load. Meets or exceeds CSA C22.2 No. 107.1 for harmonic distortion. **Overload Capability:** 150% surge and 125% for 10 mins. on line. 150% surge and 110% for 10 mins. on inverter. UL (1778, 1449) and cUL Listed, TUV/GS Approved and CSA Certified.

CORDED SYSTEMS FOR 120/208/240 (60 Hz)

Mfr. No.	Ratings		DC Volts	Run Time (Minutes)		Efficiency % On Line	Weight (Lbs.)	Dimensions (In.)		
	KVA	KW		Full Load	Half Load			Height	Width	Depth
Input Connection: 6' Cord with NEMA 5-15P; Output Connection: 4 NEMA 15-15R										
FE500VA*	0.50	0.35	12	9	25	85	58	12	10	21.25
FE700VA*	0.70	0.50	12	14	35	86	76	12	10	21.25
FE850VA*	0.85	0.60	12	11	28	85	82	12	10	21.25
Input Connection: 6' Cord with NEMA 5-15P; Output Connection: 6 NEMA 5-15R										
FE1.15KVA*	1.15	0.80	12	12	29	88	126	15.1	15.2	20.2
FE1.4KVA*	1.40	1.00	12	14	37	88	148	15.1	15.2	20.2
Input Connection: 6' Cord with NEMA 5-20P; Output Connection: 6 NEMA 5-20R										
FE1.8KVA*†	1.80	1.25	48	11	30	90	176	21.2	15.25	22.9
FE2.1KVA*†	2.10	1.50	48	9	25	90	188	21.2	15.25	22.9
Input Connection: 6' Cord with NEMA L5-30P; Output Connection: 6 NEMA 5-20R										
FE3.1KVA*†	3.10	2.20	48	14	35	91	248	21.2	15.25	22.9

HARDWIRED INPUTS AND OUTPUTS

Bypass switch recommended for all hardwired units.

Bypass switch recommended for all hardwired units.

Mfr. No.	Ratings		DC Volts	Run Time (Minutes)		Efficiency % On Line	Weight (Lbs.)	Dimensions (In.)		Depth
	KVA	KW		Full Load	Half Load			Height	Width	
For 120/208/240 (60 Hz)										
6' line cord and receptacle optional.										
FE4.3KVA†§	4.30	3.00	48	10	24	90	348	29.5	15.5	25
FE4.3KVA†	4.3	3.00	48	10	24	90	348	29.5	15.5	25
FE5.3KVA†§	5.30	3.70	48	20	50	90	484	29.5	15.5	25
FE5.3KVA†	5.30	3.70	48	20	50	90	484	29.5	15.5	25
FE7KVA†§	7.00	5.00	48	12	33	90	578	36.5	19	32
FE7KVA†	7.00	5.00	48	12	33	90	578	36.5	19	32
For 208/240 (60 Hz)										
Batteries contained in second cabinet.										
FE10KVA†	10.00	7.50	120	11	26	90	837	36.5	19	32
FE12.5KVA†	12.50	10.00	120	11	27	91	1040	36.5	19	32
FE18KVA†	18.00	15.00	120	10	26	92	1300	36.5	19	32

* Price includes standard line cord and receptacles. †Require greater than 15 amp input. § 120 VAC input only.

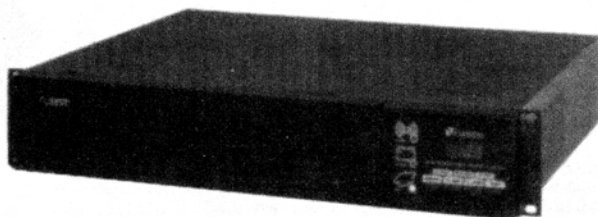
OPTIONS

Mfr. No.	Description	Comment	Wt. (Lbs.)
RCP-B	5-20R duplex 120V, 20A	Order 2 for 4 receptacles, 4 for 8 receptacles.	1
LC8	6' cord, L6-30P & R	For 4.3 KVA and 5.3 KVA units	5
LC5	6' cord, 6-50P & R	For 5.3 KVA and 7 KVA units	5
BPE-01*	40A external maintenance bypass switch	For 120V input voltage FE4.3	10
BPE-02*	50A external maintenance bypass switch	For 208V input voltage FE4.3, FE5.3, FE7	23

* Bypass switch recommended for all hardwired units.

Note: Other plug "n" play options available.

FORTRESS® RACK MOUNT UNINTERRUPTIBLE POWER SYSTEMS



Advanced power management for enterprise networking computing. LED display. Full time EMI/RFI filtering. Inverter sine wave output with less than 5% THD. 50/60 Hz frequency auto sensing. Less than 44 dBA at one meter. Equipped with communications port, for interactive local and remote power management and automatic shutdown. **Temperature Range:** 0°C to +40°C. UL (1778, 1449) and cUL Listed. TUV/GS approved.

Mfr. No.	Ratings		Run Time (Minutes)		Adjustable Input (VAC)	Output Output (VAC)	Weight (Lbs.)	Dimensions (In.)		
	VA	Watts	Full Load	Half Load				Height	Width	Depth
120V In/Out; NEMA 5-15P Plug; (6) NEMA 5-15P Receptacles										
LI720BR	720	470	5	13	92-134	102-134	30	3.5	19	16
LI1020BR	1020	700	7	18	92-134	102-134	45	3.5	19	16
LI1420BR	1420	975	6	15	92-134	102-134	55	3.5	19	16
230V In/Out; IEC-320 (10A) Plug; (4) IEC-320 (10A) Receptacles										
LI720DR	720	470	5	13	176-250	200-250	30	3.5	19	16
LI1020DR	1020	700	7	18	176-250	200-250	45	3.5	19	16
LI1420DR	1420	975	6	15	176-250	200-250	55	3.5	19	16

UNITY/ITM SINGLE-PHASE UNINTERRUPTIBLE POWER SYSTEMS

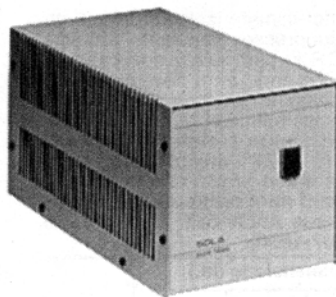


Ultimate power integrity for midrange computers and client/server environments. AC input voltage range: 147 to 276 VAC (200/208/220/230 volt input) and 153 to 276 VAC (240 volt output). RS232 port, full-duplex serial communication, alarm contacts, inverter contacts and remote emergency power off (REPO). Includes PhonTek® remote diagnostic port. Regulates voltage output to $\pm 3\%$. Single-phase UPS shipped with CheckUPS® II Suite power management software on CD-ROM, no additional charge. UL Listed (1778, 1449), GS (TUV) and CSA (cUL). Hardwiring is standard, contact distributor for "plug & play" line cord and receptacle options. Typical re-charge time is less than 4-6 hours.

Mfr. No.	Rating		Nominal Input		Runtime (Minutes)*		DC Volts	Efficiency % On Line	Weight (Lbs.)	Dimensions (In.)		
	KVA	KW	Volts	Amps	Full Load	Half Load				Height	Width	Depth
UT3K-H	3	3	200	17	19	43	48	95	215	29	10.5	25.75
			208	17								
			220	16								
			230	15								
			240	15								
UT4K-H	4	4	200	22	12	28	48	96	280	29	10.5	25.75
			208	22								
			220	20								
			230	20								
			240	19								
UT5K-H	5	5	200	28	8	21	48	96	295	29	10.5	25.75
			208	27								
			220	25								
			230	24								
			240	23								
UT8K-H	8	8	200	45	13	31	48	96	490	32	13	33
			208	43								
			220	41								
			230	39								
			240	37								

* Runtime at 0.75 power factor.

PORTABLE MCR SERIES POWER CONDITIONER



Sola's MCR Series provides economical protection from surges, sags, spikes, brownouts, and eliminates both common-mode and normal-mode noise. PCs, electronic cash registers and data sensitive equipment are susceptible to loss of data integrity, damaged components, poor performance and increased downtime caused by electrical disturbances. Power related problems disappear and your system's performance is optimized when it receives regulated and noise free power from the MCR. Our new MCR is engineered especially for the switch-mode power supplies used in today's microprocessor-based equipment. Its lower output impedance will improve momentary overload and waveform characteristics for a broader range of applications. With Sola's 60 years experience in ferroresonant technology, you are assured that value and reliability are built into each MCR. In fact, Sola's MCRs have a typical life of 25 years!

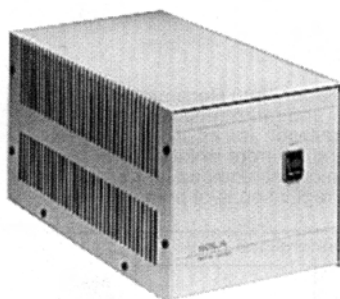
When the MCR is overloaded for any reason, the output instantly shuts down to protect your equipment and the MCR. Once the overload is removed, the MCR automatically resumes normal operation. The MCR is portable and quiet for office environments. Easy to use and maintenance free, you only have to plug in the MCR for complete protection from power line disturbances. **Voltage:** 120 VAC. **Frequency:** 60 Hz; **Regulation:** $\pm 3\%$ for $+10\%$ – 20% line fluctuation. Output meets NEMA voltage specifications even when input voltages drop to 65% of nominal. There is no loss of output for complete line loss of 3 ms.

- Lower output impedance.
- All models are backed by a 10 year limited warranty.
- Excellent for use with PCs, electronic cash registers, fax machines, test equipment and any data sensitive system.
- 6,000 Volts, 3,000 Amps transients are suppressed to safe levels per ANSI/IEEE C62.41-1980 Category A and B Waveforms (formerly IEEE 587-1980).
- Up to 90% efficiency at full load.

Mfr. No.	Output		Input Voltage Range	Plug	Receptacle/(Qty.)	Dimensions (In.)			Approx. Ship Wt. (Lbs.)
	Max. VA Rating	Nom. Volts				L	W	H	
63-13-070-6	70	120	95-130	5-15P	5-15R (4)	9.25	6.75	6.25	18
63-13-115-6	150	120	95-130	5-15P	5-15R (4)	9.25	6.75	6.25	21
63-13-125-6	250	120	95-130	5-15P	5-15R (4)	9.25	6.75	6.25	26
63-13-150-6	500	120	95-130	5-15P	5-15R (4)	16.0	8.5	8.5	32
63-13-175-6	750	120	95-130	5-15P	5-15R (4)	16.0	8.5	8.5	64
63-13-210-6	1000	120	95-130	5-15P	5-15R (4)	16.0	8.5	8.5	70
63-13-220-6	2000	120	95-130	L5-30P	5-15R (4) & L5-30R (1)	16.88	11.38	10.62	115
63-13-230-6	3000	120	95-130	L5-50P	5-15R (4) & L5-30R (1)	16.88	11.38	10.62	143

50 Hz models available; call us for details.

MPC SERIES MEDICAL POWER CONDITIONER



Sola's MPC Series medical power conditioner is your prescription for economical protection from surges, sags, spikes, brownouts, and eliminates both common-mode and normal-mode noise. Imaging systems, monitors, diagnostics, data sensitive and patient care equipment are susceptible to loss of data integrity, damaged components, poor performance and increased downtime caused by electrical disturbances. Power related problems disappear and your system's performance is optimized when it receives regulated and noise free power from the MPC.

When the MPC is overloaded for any reason, the output instantly shuts down to protect your equipment and the MPC. Once the overload is removed, the MPC automatically resumes normal operation. The MPC is portable and quiet for office and patient care environments. Easy to use and maintenance free, you only have to plug in the MPC for complete protection from power line disturbances. **AC Leakage Current:** Less than 500 μ A leakage current for patient care products specified per UL 544. **Harmonic Rejection:** Less than 3% total harmonic distortion. The output is sinewave. The harmonic neutralized MPC rejects all harmonic frequencies other than the 60 Hz fundamental.

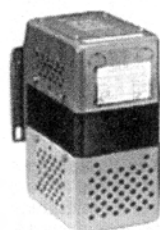
- Exceptionally low leakage current of less than 50 mA exceeds the requirements of UL 544.
- $\pm 3\%$ regulation for line fluctuations of $+10\%$ – 20% .
- Deep brownouts of up to 65% from nominal are maintained to within 10% of the output nominal.
- AC power is maintained for outages up to 3 ms.
- Lower output impedance.
- All models feature 4 orange "hospital grade" output receptacles.
- Excellent for use with diagnostics, imaging and monitoring systems, test equipment and any data sensitive patient care system.
- 6,000 Volts, 3,000 Amps transients are suppressed to safe levels per ANSI/IEEE C62.41-1980 Class A and B Waveforms (formerly IEEE 587-1980).
- Extremely reliable, MPC has an average life of 25 years.
- All models are backed by a 10 year limited warranty.

MPC SERIES

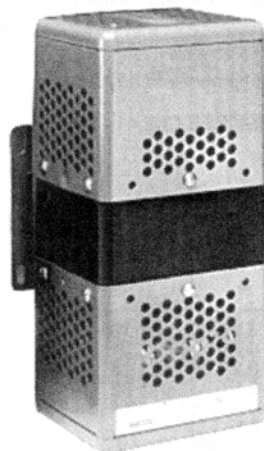
Mfr. No.	VA	I/O Volt	Plug	Receptacle Type/(Qty.)	Dimensions (In.)			Wt. Lbs.
					L	W	H	
63-13-125-7	250	120	5-15P	5-15R (4)	9.25	6.75	6.25	26
63-13-150-7	500	120	5-15P	5-15R (4)	16.0	8.5	8.5	32
63-13-210-7	1000	120	5-15P	5-15R (4)	16.0	8.5	8.5	69

MCR SERIES HARDWIRED POWER CONDITIONER

Sola's "MCR" Series provide instantaneous voltage regulation and ultimate isolation from both transverse and common mode noise for any type of load. It also suppresses transients, protects against overloads and serves as a dedicated line. The Sola MCR is particularly applicable in systems where noise and transients cause errors or low voltage and short term disruptions can result in loss of memory. The output wave shape is sinusoidal and contains less than 3% harmonic distortion, making it ideal for any electronic load. Common mode noise rejection of 120 dB for the MCR, while transverse noise rejection is better than 60 dB – **true ultra isolation**. Brownout protection is a real bonus feature. Input line variations as great as +10%/-20% are instantaneously regulated to a maximum output deviation of $\pm 3\%$. Output remains within NEMA voltage specifications for input voltages as low as 65% of nominal. **The enhanced mini computer regulator is UL Listed to UL-1012. Ferroresonant technology suppresses ANSI/IEEE C62.41-1980 Category A and B waveforms to safe levels (formerly IEEE 587-1980).**



UL Listed

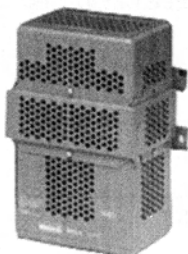
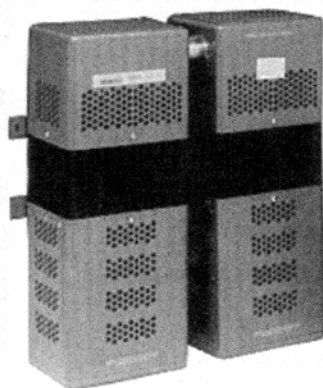


Mfr. No.	VA	Voltage Rating		Dimensions (In.)			App. Ship. Wt. (Lbs.)
		Regulated Output	Nominal Input Voltage	H	W	D	
63-23-112-4	120	120	120, 208, 240 or 480	8.62	5.19	3.31	15
63-23-125-4	250			9.88	7.44	4.50	27
63-23-150-8	500	120, 208 or 240	120, 208, 240 or 480	12.69	6.44	7.78	37
63-23-175-8	750			13.69	6.44	7.78	52
63-23-210-8	1000			16.75	6.44	7.78	62
63-23-215-8	1500			16.44	9.03	10.56	95
63-23-220-8	2000			17.31	9.03	10.56	109
63-23-230-8	3000			18.69	9.03	10.56	142
63-23-250-8	5000			28.19	8.97	10.59	222
63-28-275-8	7500	120, 208 or 240	208, 240 or 480	26.56	8.97	24.82	362
63-28-310-8	10000			28.19	8.97	24.82	446
63-28-315-8	15000			28.19	9.34	37.23	710

All models are backed by a 10 year limited warranty.
600 VAC Input and CSA certified models are available – Call us for details.

CVS SERIES VOLTAGE REGULATOR

Contains less than 3% total harmonic content in output at full load operation. Recommended for all AC applications where harmonics can affect operation. Smaller and more rugged than transformers employing filters for waveshape improvement. $\pm 1\frac{1}{2}\%$ regulation for an input range of ± 10 -20% of nominal range. Due to their lower harmonic content and inherent isolation from line, Sola CVS transformers are ideally suited for use with electronic test equipment and mini-computers. Commonly used in industrial situations where voltage regulation is of primary importance.



UL Listed
CSA Certified

Mfr. No.	VA	Voltage Rating		Dimensions (In.)			App. Ship. Wt. (Lbs.)
		Regulated Output	Nominal Input Voltage	H	W	D	
23-13-030-2	30	120	120	6.03	3.31	5.18	7
23-13-060-2	60			6.88	3.31	5.18	9
23-22-112-2	120	120	120 or 240	7.94	3.31	5.18	13
23-23-125-8	250	120	120, 240 or 480	9.88	4.50	7.44	29
23-23-150-8	500	120 or 240	120, 208 240 or 480	12.69	7.78	6.44	42
23-23-210-8	1000			16.75	7.78	6.78	65
23-23-220-8	2000			17.31	10.56	9.34	111
23-23-230-8	3000			18.69	10.56	9.34	142
23-23-250-8	5000			28.19	10.59	9.28	222
23-28-275-6	9500		208, 240 or 480	29.06	8.97	24.82	365

All models are backed by a 10 year limited warranty.