

THESE SIX POWER VIRUSES™ CAN KILL YOUR PRODUCTIVITY.

IMMUNIZE YOUR SYSTEM WITH ETA PROTECTION

YOU'VE HEARD ABOUT THE DANGERS OF SOFTWARE VIRUSES. BUT DID YOU KNOW THAT POWER VIRUSES CAN DO JUST AS MUCH DAMAGE TO YOUR SYSTEM? AND THAT A TYPICAL FACILITY EXPERIENCES AS MANY AS 6,000 POWER VIRUSES OR MORE, EVERY YEAR?

SOME OF THESE POWER VIRUSES ARE OBVIOUS, SOME ARE ALMOST UNNOTICEABLE, BUT THEY ALL CAUSE PROBLEMS THAT CAN SERIOUSLY DAMAGE YOUR PRODUCTIVITY, FROM LOST DATA AND LOCK-UPS TO COMMUNICATIONS ERRORS AND HARDWARE FAILURES.

FORTUNATELY, WHATEVER TYPES OF POWER VIRUSES YOUR SYSTEM IS EXPOSED TO, YOU CAN IMMUNIZE YOURSELF WITH COMPLETE POWER PROTECTION FROM ETA SYSTEMS.



Voltage regulation—In the past, unregulated voltages wreaked havoc with linear power supplies, making it hard for computer-based equipment to function. Failures were common. But thanks to the switch-mode supplies used in today's computers, today's systems have developed their own immunity to voltage regulation viruses. (This immunity is a by-product of the same technology that makes switch mode supplies smaller and more economical.) If a system still uses linear power supplies, then voltage regulation may still be necessary.



Blackouts—Although they're the most visible—and memorable—of power viruses, blackouts account for comparatively few disturbances each year. An uninterruptible power system (or UPS) will keep your system up and running during a blackout, but it won't immunize against the other power viruses, unless the UPS has a noise filter, surge diverter, and an isolation transformer.



Backdoor disturbances—This virus infects your system via a pathway you'd least expect: the backdoor. Even though it's not an AC power connection, damaging electrical disturbances can enter electronic systems through modem and phone lines, network connections and I/O cables. Fiber optic connections are one means of protection, but if your system uses ordinary communications wiring and connections, you need to immunize it against this often unrecognized but very dangerous virus.



Common-mode voltage problems—Probably the most serious virus facing computer users today, common-mode voltage problems can cause unexplained data losses, glitches, system failures and "no trouble found" service calls. The only way to immunize against common-mode voltage is to install a power conditioner or UPS that has an isolation transformer output.

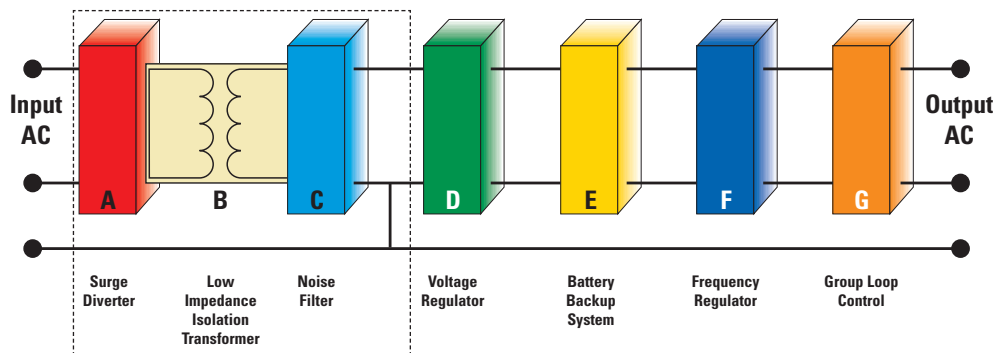


Electrical noise—This virus is spread by electrical neighbors such as electronic lighting ballasts, appliances, printers, photocopiers and even other computers. Over time, and in connection with low-voltage spikes, noise can wear away electrical components and cause them to fail for no apparent reason.



Voltage spikes and impulses—Like electrical noise, this virus is also spread by equipment inside your facility. When elevators, motors or air conditioners stop and start, they can cause sudden large increases in voltage inside the electrical system. Other causes include electric utility switching and lightning strikes (which can cause transients so intense they literally "blow up" sensitive electronics).

The ABC's of Power Conditioning



POWER CONDITIONER SPECIFICATIONS

MODELS

MODELS	Input/Output Voltage (VAC)	Load Current (Amps)	Load Power (VA)	Input Plug	Output Receptacles	Inrush Current* (Amps)	Load Surge Current (Amps)			Frequency (Hz)	Efficiency (%)	Case Size**	Shipping Weight
							1/2 Cycle	1 Sec.	10 Sec.				
North American													
PCI-065NA	120	.65	78	NEMA 5-15P	2 NEMA 5-15R	25	10	3.6	2	60	90	A	5 (lbs.)
PCI-100NA	120	1	120	NEMA 5-15P	2 NEMA 5-15R	40	15	5.2	3	60	90	A	6
PCI-152NA	120	1.5	180	NEMA 5-15P	4 NEMA 5-15R	70	28	10	4.5	60	90	B	8
PCI-202NA	120	2	240	NEMA 5-15P	4 NEMA 5-15R	105	38	14	6	60	90	B	9
PCI-302NA	120	3	360	NEMA 5-15P	4 NEMA 5-15R	105	82	28	10	60	90	B	11
PCI-402NA	120	4	480	NEMA 5-15P	4 NEMA 5-15R	135	125	60	17	60	93	B	12
PCI-400NA	120	4	480	NEMA 5-15P	6 NEMA 5-15R	135	125	60	17	60	93	C	16
PCI-500NA	120	5	600	NEMA 5-15P	6 NEMA 5-15R	135	175	84	24	60	94	C	18
PCI-600NA	120	6	720	NEMA 5-15P	6 NEMA 5-15R	135	215	102	30	60	94	C	20
PCI-700NA	120	7	840	NEMA 5-15P	6 NEMA 5-15R	135	237	114	33	60	95	C	22
PCI-830NA	120	8.3	1000	NEMA 5-15P	6 NEMA 5-15R	135	325	156	45	60	95	D	34
PCI-1000NA	120	10	1200	NEMA 5-15P	6 NEMA 5-15R	135	375	180	52	60	95	D	38
PCI-1200NA	120	12	1440	NEMA 5-15P	6 NEMA 5-15R	135	400	192	55	60	95	D	43
PCI-1600NA	120	16	1920	NEMA 5-20P	6 NEMA 5-20R	135	500	240	70	60	96	D	52
PCI-2000NA	120	20	2400	NEMA L5-30P	6 NEMA 5-20R	135	500	240	70	60	96	D	63
International													
PCI-150INT	200-264	.65	150	IEC Inlet Module	2 IEC 320	25	55	20	4	50/60	93	B	5 (kgs)
PCI-250INT	200-264	1.09	250	IEC Inlet Module	3 IEC 320	40	62	34	8	50/60	93	B	5
PCI-500INT	200-264	2.08	500	IEC Inlet Module	6 IEC 320	105	100	48	14	50/60	95	C	9
PCI-750INT	200-264	3.12	750	IEC Inlet Module	6 IEC 320	105	130	62	18	50/60	95	C	10
PCI-1000INT	200-264	4.16	1000	IEC Inlet Module	9 IEC 320	135	162	78	23	50/60	96	D	17
PCI-1250INT	200-264	5.21	1250	IEC Inlet Module	9 IEC 320	135	195	92	27	50/60	96	D	18
PCI-1500INT	200-264	6.25	1500	IEC Inlet Module	9 IEC 320	135	225	108	32	50/60	96	D	20
PCI-2000INT	200-264	8.33	2000	IEC Inlet Module	9 IEC 320	135	285	125	41	50/60	96	D	23
PCI-2500INT	200-264	10.42	2500	IEC Inlet Module	9 IEC 320	135	330	160	55	50/60	96	D	28

*Inrush Current for momentary dropout—worst case

**Case Size (in.)

A — 3.61 x 4.25 x 6.74 C — 4.29 x 8.10 x 11.80
B — 4.23 x 4.97 x 7.58 D — 5.60 x 11.15 x 16.10

SURGE VOLTAGE WITHSTAND CAPABILITY:

Tested under power to ANSI/IEEE C62.41; Category A & B (Formerly IEEE587-1980); Category A, 6000V/200A, 0.5µsec risetime, 100kHz decay; Category B, 6000V/500A, 0.5µsec risetime, 100kHz decay

NOISE REJECTION-ISOLATION: With unit under power, and an ANSI/IEEE C62.41 Category A pulse applied either normal or common mode at the input, the noise output voltage will be less than 10V normal mode, and less than 0.5V common mode in all quadrants (CN-NM, NM-NM, CM-CM, NM-CM)

COOLING: Natural convection

TOTAL HARMONIC DISTORTION MAX.:
< 1 percent

SAFETY AGENCIES: UL, cUL and VDE listed

WARRANTY: Product is warranted for five years against defects in manufacturing and workmanship.



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