

# Surge Protection

A complete offering of surge protection products for homes, businesses, schools and light commercial applications.



*Powering Business Worldwide*



# Eaton offers a Complete Line of Surge Protection.

Products include complete home surge protectors, surge strips, and battery back-up power.

- Surge protection is necessary to protect sensitive electronic devices such as computers, TVs, DVD players, audio equipment, and gaming systems which are susceptible to the damaging effects of surges.

**\*Estimated Market Opportunity:**

- Institutions: \$200 Million
- Corporate: \$300 Million
- Consumer: \$400 Million

**What makes Eaton's Surge Protection Unique:**

- Best protection, highest ratings
- Comprehensive warranties
- Broadest product offering
- Innovative features

## Stage I: Surge Protection at the Service Entrance Panel

All products below provide AC Power Protection, LED Status Indication, a Limited Lifetime Warranty, and are suitable for Indoor/Outdoor applications when properly installed. Ratings include: 400 V Clamping Voltage, UL/cUL® Listed, <1 Nanosecond response time, 120/240 Vac, 50/60 Hz.



### CHSPULTRA (BEST)

- AC Power Protection
- 2880 Joules (Total)
- 180 kA Max Surge Current
- \*\$75,000 Warranty



### CHSPMAX (BETTER)

- AC Power Protection
- 2400 Joules (Total)
- 150 kA Max Surge Current
- \*\$50,000 Warranty



### CHSPMICRO (GOOD)

- AC Power Protection
- 1920 Joules (Total)
- 120 kA Max Surge Current
- \*\$25,000 Warranty

CHSPULTRA, MAX, and MICRO will universally connect to any manufacturer's loadcenter.

All products below offer a Limited Lifetime Warranty and are suitable for Indoor cable or phone applications when properly installed. Ratings include: UL/cUL Listed, <1 Nanosecond response time.



### DCXCAB2 (CABLE)

- Protects 2 quad shield cables
- 20 kA Max Surge Current
- DC breakdown voltage 145 V
- \*\$10,000 Warranty



### DHW4PT (TELEPHONE)

- Protects 4 telephone lines
- 80 kA Max Surge Current
- DC breakdown voltage 230 V
- Ring 90 – 120 Vac / Tone
- 48 – 52 Vdc
- \*\$10,000 Warranty



### CHSPCHSR4P (3 Pack)

- Includes CHSPULTRA (AC), DCXCAB2 (Cable), and DHW4PT (Telephone)

All products below offer a 1 Year Limited Product Warranty and are suitable for Indoor/Outdoor applications when properly installed.



### CHSA

- Basic AC Surge Protection
- 480 Joules
- UL Listed for 3/4" CH Type Loadcenters



### BRSURGE

- Basic AC Surge Protection
- 480 Joules
- UL Listed for 1" BR Type Loadcenters
- UL Classified for GE® and Siemens® Type Loadcenters



### CHQSA

- Basic AC Surge Protection
- 480 Joules
- UL Classified for Square D® Type QO™ Loadcenters



### CHSA01 (Single Phase)

- Basic AC Surge Protection for single phase outdoor lighting, garages, sump and irrigation pumps



### CHSA03 (Three Phase)

- Basic AC Surge Protection for three phase commercial electrical services

## Surge Loadcenters

### Factory Installed Surge Protection

- Includes a CHSPULTRA and a 2-pole 15 Amp circuit breaker
- Increases the effectiveness of surge protection due to reduced lead length
- A modified deadfront allows for easy viewing of indicating lights



SURGE INSTALLED

### Surge Ready

- Provides a mounting provision for CHSPULTRA
- A modified deadfront allows for easy viewing of indicating lights



SURGE READY

### SURGE INSTALLED LOADCENTERS

Catalog No.	Description	Cover Catalog No.	
		Combination	Surface
CHSUR42N225L*	42 ckt, 225A, Convertible	CHSUR8LF	CHSUR8LS
CHSUR42L225L2*	42 ckt, 225A, Convertible**	CHSUR8LF	CHSUR8LS
CHSUR42B200L2*	42 ckt, 200A, Main Bkr	CHSUR8LF	CHSUR8LS
CHSUR32N225K*	32 ckt, 225A, Convertible	CHSUR8KF	CHSUR8KS
CHSUR32L225K*	32 ckt, 225A, Convertible**	CHSUR8KF	CHSUR8KS
CHSUR32B200K*	32 ckt, 200A, Main Bkr	CHSUR8KF	CHSUR8KS
CHSUR32B150K*	32 ckt, 150A, Main Bkr	CHSUR8KF	CHSUR8KS
CHSUR32B100K*	32 ckt, 100A, Main Bkr	CHSUR8KF	CHSUR8KS
CHSUR24L125E*	24 ckt, 125A, Convertible**	CHSUR8EF	CHSUR8ES
CHSUR24B100E*	24 ckt, 100A, Main Bkr	CHSUR8EF	CHSUR8ES
BRSUR4040N200	40/40 ckt, 200A, Convertible	Cover Included	
BRSUR4040L200	40/40 ckt, 200A, Main Lug	Cover Included	
BRSUR4040B200	40/40 ckt, 200A, Main Bkr	Cover Included	
BRSUR3040N200	30/40 ckt, 200A, Convertible	Cover Included	
BRSUR3040L200	30/40 ckt, 200A, Main Lug	Cover Included	
BRSUR3040B200	30/40 ckt, 200A, Main Bkr	Cover Included	

\* Order Cover Separately

\*\* With Main Lugs Installed

### SURGE READY LOADCENTERS (Provision only, CHSPULTRA & breaker not included)

Catalog No.	Description	Cover Catalog No.	
		Combination	Surface
CHEC42N225L*	42 ckt, 225A, Convertible	CHSUR8LF	CHSUR8LS
CHEC42L225L*	42 ckt, 225A, Convertible**	CHSUR8LF	CHSUR8LS
CHEC42B200L*	42 ckt, 200A, Main Bkr	CHSUR8LF	CHSUR8LS
CHEC32L225K*	32 ckt, 225A, Convertible**	CHSUR8KF	CHSUR8KS
CHEC32N225K*	32 ckt, 225A, Convertible	CHSUR8KF	CHSUR8KS
CHEC32B200K*	32 ckt, 200A, Main Bkr	CHSUR8KF	CHSUR8KS
CHEC32B150K*	32 ckt, 150A, Main Bkr	CHSUR8KF	CHSUR8KS
CHEC32B100K*	32 ckt, 100A, Main Bkr	CHSUR8KF	CHSUR8KS
CHEC24L125E*	24 ckt, 125A, Convertible**	CHSUR8EF	CHSUR8ES
CHEC24B100E*	24 ckt, 100A, Main Bkr	CHSUR8EF	CHSUR8ES

\* Order Cover Separately

\*\* With Main Lugs Installed

## CHSP Product Accessories



### CHSP3RTELCABLE

- Raintight enclosure for DCXCAB2 (Cable) and DHW4PT (Telephone)
- Top or bottom feed
- Enclosure only, surge not included
- Accommodates up to 2 devices



### CHSPFMKIT

- Flush mount kit for:
  - CHSPULTRA
  - CHSPMAX
  - CHSPMICRO
  - DCXCAB2 (Cable)
  - DHW4PT (Telephone)



### MSEGR1

- Outdoor communication grounding device
- Meets 2008 NEC® requirements for intersystem bonding termination

## Stage II: Point of Use Surge Protection

### ULTRA SERIES (BEST)

All products below provide a Cord Length of 6' and offer a \*\$150,000 Warranty. Ratings include: 330 V Clamping Voltage, EMI/RFI Noise Filter up to \*\*58dB, 125 Vac, 15A, 60Hz, 1875W, UL/cUL Listed.



#### SULT8T

- 2160 Joules
- 144 kA Max Peak Current
- Protects AC Power/Phone
- 8 Rotating Outlets (for extra plug-in space)

\*\*SULT8T up to 40dB



#### SULT10TC

- 2880 Joules
- 192 kA Max Peak Current
- Protects AC Power/Phone/Coax Cable/Network
- 10 Outlets (5 fixed, 5 rotating for extra plug-in space)



#### SULT12TC

- 4320 Joules
- 288 kA Max Peak Current
- Protects AC Power/Phone/Coax Cable/Network
- 12 Outlets (4 fixed, 8 rotating for extra plug-in space)

### MAX SERIES (BETTER)

All products below provide a Cord Length of 6' and offer a \*\$75,000 Warranty. Ratings include: 330 V Clamping Voltage, EMI/RFI Noise Filter up to 40dB, 125 Vac, 15A, 60Hz, 1875W, UL/cUL Listed.



#### SMAX7

- 1080 Joules
- 72 kA Max Peak Current
- Protects AC Power
- 7 Outlets with Sliding Safety Covers



#### SMAX7T

- 1080 Joules
- 72 kA Max Peak Current
- Protects AC Power/Phone
- 7 Outlets with Sliding Safety Covers



#### SMAX7C

- 1080 Joules
- 72 kA Max Peak Current
- Protects AC Power/Coax Cable
- 7 Outlets with Sliding Safety Covers



#### SMAX8TC

- 2160 Joules
- 144 kA Max Peak Current
- Protects AC Power/Phone/Coax Cable
- 8 Outlets with Sliding Safety Covers

### MICRO SERIES (GOOD)

All products below offer a \*\$50,000 Warranty. Ratings include: 540 Joules, 36 kA Max Peak Current, 330 V Clamping Voltage, EMI/RFI Noise Filter up to 40dB, 125 Vac, 15A, 60Hz, 1875W, UL/cUL Listed.



#### SMICRO7

- Protects AC Power
- 7 Outlets with Sliding Safety Covers
- Cord Length 6'



#### SMICRO1

- Protects AC Power
- 1 Outlet
- Wall mount design



#### SMICRO1C

- Protects AC Power/Coax Cable
- 1 Outlet
- Wall mount design



#### SMICRO1T

- Protects AC Power/Phone
- 1 Outlet
- Wall mount design

### MICRO SERIES (GOOD) CONTINUED...



#### SMICRO6C

- Protects AC Power/Coax Cable
- 6 Outlets
- Wall mount design (includes retaining screw)



#### SMICRO6T

- Protects AC Power/Phone
- 6 Outlets
- Wall mount design (includes retaining screw)



#### SMICRO6TC

- Protects AC Power/Phone/Coax Cable
- 6 Outlets
- Wall mount design (includes retaining screw)

### CONSTRUCTION SERIES (DURABLE METAL HOUSING)

The product below provides 7 Outlets and a Cord Length of 6'. Ratings include: 1080 Joules, 72 kA Max Peak Current, 330 V Clamping Voltage, EMI/RFI Noise Filter up to 40dB, 125 Vac, 15A, 60Hz, 1875W, UL/cUL Listed.



#### SCONST7

- Protects AC Power

### POWER STRIPS (NO SURGE PROTECTION)

All products below provide 6 Grounded Outlets and a built-in circuit breaker. Rating includes: UL/cUL Listed.



#### PSXVAL6AC3

- Cord Length 3'



#### PSXVAL6AC4

- Cord Length 4'



#### PSXVAL6AC8

- Cord Length 8'

### Uninterruptible Power Supply



#### Eaton 9130 UPS

- 190 Joules
- 1500/1050 VA/Watts
- Cord Length 3'
- 6 Output Receptacles
- Complete Power Conditioning



#### Eaton 5110 UPS

- 320 Joules
- 1000/600 VA/Watts
- Cord Length 3'
- 8 Output Receptacles (4 with surge & battery backup, 4 surge only)
- Intermediate Power Conditioning



#### Eaton 3105 UPS

- 320 Joules
- 500/300 VA/Watts
- Cord Length 3'
- 8 Output Receptacles (4 with surge & battery backup, 4 surge only)

Eaton Corporation is a diversified power management company ranked among the largest Fortune 500 companies. The electrical group is Eaton's largest division and is a global leader in electrical control, power distribution, power quality, automation, and monitoring products and services. Eaton's global electrical product lines, including Cutler-Hammer®, MGE Office Protection Systems™, Powerware®, Holec®, MEM®, Santak and Moeller, provide customer-driven PowerChain Management® solutions to serve the power system needs of the industrial, institutional, government, utility, commercial, residential, IT, mission critical and OEM markets worldwide.

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