Superior power conditioning for industrial and commercial applications



The Power-Sure™ 800 cleans up and purifies fluctuating and erratic power that exists in commercial and industrial facilities so that sensitive electronic equipment is not affected.

The Power-Sure 800 is a self-regulating isolation transformer that was developed to protect against fluctuating voltages, brownouts, line noise, short-duration power outages, sags, surges, spikes and transients. The Power-Sure 800 also has one of the highest K-factors—K-30—and eliminates harmonic current in the power line, which helps prevent damage to building wiring.

The Power-Sure 800 is ideal for use in industrial applications, such as computer-programmable controllers and robotics. Use the Power-Sure 800 whenever continuous, well-regulated, transient-free power is required.

Technical specifications

- Line regulation: ±3% V-out for +10% to –20% V-in at 100% load
- Load regulation: ±3% for 0–75% load, ±2% for 100% load
- Immunity to distortion: at 40% THD V-in, 5% nominal THD V-out at 50% load or higher
- Ride-through capability: 1 cycle
- Voltage recovery: 2 cycles to 95%, 3 cycles to 100%
- K-factor: K-30 rated
- Power factor correction: input of 0.95 typical
- Harmonic attenuation: –23 dB for load-reflected harmonics
- Galvanic isolation: NEC® 250.5d, 0.001 PF
- Surge protection: 330 V let-through voltage when tested to ANSI/IEEE® 62.41-Cat B3
- Common mode noise attenuation: 140 dB
- Transverse mode noise attenuation: 120 dB
- Reliability: 200,000 hours mean time between failures (MTBF)
- Audible noise: 52–56 dB measured at 1 meter, A scale
- Efficiency: approximately 92% at full load
- Operating temperature: –20 °C to +40 °C
- Frequency: 60 Hz standard configuration; for 50 Hz optional configuration, contact factory
- Safety: UL® 1012, UL 544 and cUL® listed

Features

- Superior isolation
- Tight voltage regulation
- High immunity to distortion
- Lightning and surge protection
- Protection against power interruptions
- Power factor correction
- Bi-directional harmonic filtering
- Meets ANSI standards for computers with inputs as low as 50% of nominal
- UL 1012, UL 544 and cUL listed
- K-30 rated design

Eaton Power-Sure 800 power conditioners provide high-quality power with inherent surge protection, noise and bi-directional harmonic filtering, as well as superior isolation. These units range from office models to floor- or wall-/panel-mounted industrial models and provide an excellent solution for any application with noisy or poor power quality.

c UL UL

EATON
Powering Business Worldwide

Power-Sure 800 models

Part number	Rating (VA/watts)	Input voltage	Output voltage	Input interface	Output interface	Dimensions W x D x H, inches (mm)	Weight lb (kg)
Office models (with receptacles)							
T800R-01000	1000/700	120	120	5-15P	(4) 5-20R	8.50 x 12.75 x 17.50 (215.9 x 323.9 x 444.5)	46 (21)
T800R-01600	1600/1200	120	120	5-15P	(4) 5-20R	8.50 x 12.75 x 17.50 (215.9 x 323.9 x 444.5)	62 (28)
T800R-02100	2100/1500	120	120	5-20P	(4) 5-20R	8.50 x 12.75 x 17.50 (215.9 x 323.9 x 444.5)	65 (29)
T800R-02500	2500/1750	120	120	5-30P	(4) 5-20R	8.50 x 12.75 x 17.50 (215.9 x 323.9 x 444.5)	68 (31)
T800R-03500	3500/2450	120	120/240	5-50P	(4) 5-20R	8.50 x 12.75 x 17.50 (215.9 x 323.9 x 444.5)	72 (33)
T800R-03501	3500/2450	208/240	120/240	6-20P	(4) 5-20R	8.50 x 12.75 x 17.50 (215.9 x 323.9 x 444.5)	73 (33)
T800R-05000	5000/3500	208/240	120/240	Hardwired	Custom 1	15.00 x 23.75 x 22.50 (381.0 x 603.3 x 571.5)	176 (80)
T800R-07500	7500/5250	208/240	120/240	Hardwired	Custom 1	15.00 x 23.75 x 22.50 (381.0 x 603.3 x 571.5)	210 (95)
T800R-10000	10,000/7000	208/240	120/240	Hardwired	Custom 1	15.00 x 23.75 x 22.50 (381.0 x 603.3 x 571.5)	256 (116)
T800R-15000	15,000/10,500	208/240	120/240	Hardwired	Custom 1	15.00 x 23.75 x 22.50 (381.0 x 603.3 x 571.5)	314 (142)
Industrial models (hardwired wall-/panel-mount)							
T800P-00500	500/500	Range 1 2 4	Range 3 5	Hardwired	Hardwired	9.00 x 14.00 x 10.00 (228.6 x 355.6 x 254.0)	52 (24)
T800P-00750	750/750	Range 1 2 4	Range 3 5	Hardwired	Hardwired	9.00 x 14.00 x 10.00 (228.6 x 355.6 x 254.0)	60 (27)
T800P-01000	1000/1000	Range 1 2 4	Range 3 5	Hardwired	Hardwired	9.00 x 14.00 x 10.00 (228.6 x 355.6 x 254.0)	82 (37)
T800P-01500	1500/1500	Range 1 2 4	Range 3 5	Hardwired	Hardwired	13.00 x 16.50 x 14.75 (330.2 x 419.1 x 374.7)	106 (48)
T800P-02000	2000/2000	Range 1 2 4	Range 3 5	Hardwired	Hardwired	13.00 x 16.50 x 14.75 (330.2 x 419.1 x 374.7)	125 (57)
T800P-03000	3000/3000	Range 1 2 4	Range 3 5	Hardwired	Hardwired	13.00 x 16.50 x 14.75 (330.2 x 419.1 x 374.7)	157 (71)
T800P-05000	5000/5000	Range 1 2 4	Range 3 5	Hardwired	Hardwired	27.00 x 22.50 x 28.50 (685.8 x 571.5 x 723.9)	437 (198)
T800P-08000	8000/8000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	27.00 x 22.50 x 28.50 (685.8 x 571.5 x 723.9)	495 (225)
T800P-10000	10,000/10,000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	27.00 x 22.50 x 28.50 (685.8 x 571.5 x 723.9)	537 (244)
Industrial models (hardwired floor-mount)							
T800F-05000	5000/5000	Range 1 2 4	Range 3 5	Hardwired	Hardwired	23.00 x 20.00 x 28.50 (584.2 x 508.0 x 723.9)	407 (185)
T800F-08000	8000/8000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	23.00 x 20.00 x 28.50 (584.2 x 508.0 x 723.9)	465 (211)
T800F-10000	10,000/10,000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	23.00 x 20.00 x 28.50 (584.2 x 508.0 x 723.9)	507 (230)
T800F-15000	15,000/15,000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	35.00 x 25.00 x 39.50 (889.0 x 635.0 x 1003.3)	830 (376)
T800F-20000	20,000/20,000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	35.00 x 25.00 x 39.50 (889.0 x 635.0 x 1003.3)	950 (431)
T800F-25000	25,000/25,000	Range 2 3 4	Range 3 5	Hardwired	Hardwired	35.00 x 25.00 x 39.50 (889.0 x 635.0 x 1003.3)	1070 (485)

1 See custom output receptacles chart below; five panels available for distribution; HW output uses one panel, other four panels can be used for receptacle interface or cabling.

2 Range 1: 120/208/240/480 V.

3 Range 2: 208/240/480 V.

4 Input and output voltage is field configurable; units will ship from the factory configured as follows: Range 1—120 V (input/output); Range 2—240 V (input/output).

5 Range 3: 120/208/240 V.

T800 product configuration

T800 X - XXXXX X X - X

Configuration

R = Receptacles
P = Hardwired wall-/panel-mount
F = Hardwired floor-mount

VA rating

00500	**01500**	**02500**	**05000**	**15000**
00700	**01600**	**03000**	**07500**	**20000**
00850	**02000**	**03500**	**08000**	**25000**
01000	**02100**	**03501**	**10000**	

Receptacles

Quantity of (blank for hardwire)

Custom receptacle options 1

Code	No. of output panels (max. 4)	NEMA®	Volts	Amps	Code	No. of output panels (max. 4)	NEMA	Volts	Amps
A	1	(1) 5-15R	120	15	**M**	1.5	(1) 14-30R	120/240	30
B	1	(2) 5-15R	120	15	**N**	1	(1) L5-15R	120	15
C	1	(1) 5-20R	120	20	**P**	1	(2) L5-15R	120	15
D	1	(2) 5-20R	120	20	**R**	1	(1) L5-20R	120	20
E	1.5	(1) 5-30R	120	30	**S**	1	(1) L5-30R	120	30
F	1	(1) 6-15R	208/240	15	**T**	1	(1) L6-15R	208/240	15
G	1	(2) 6-15R	208/240	15	**U**	1	(2) L6-15R	208/240	15
H	1	(1) 6-20R	208/240	20	**V**	1	(1) L6-20R	208/240	20
I	1	(2) 6-20R	208/240	20	**W**	1	(1) L6-30R	208/240	30
J	1.5	(1) 6-30R	208/240	30	**X**	1	(1) L14-20R	120/240	20
K	1.5	(1) 6-50R	208/240	50	**Y**	1	(1) L14-30R	120/240	30
L	1	(1) 14-20R	120/240	20					

Frequency

Blank = 60 Hz
5 = 50 Hz

1 Example: T800R-100002B2Y consists of two (2) 5-15R receptacles and two (1) L14-30R receptacles.

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