

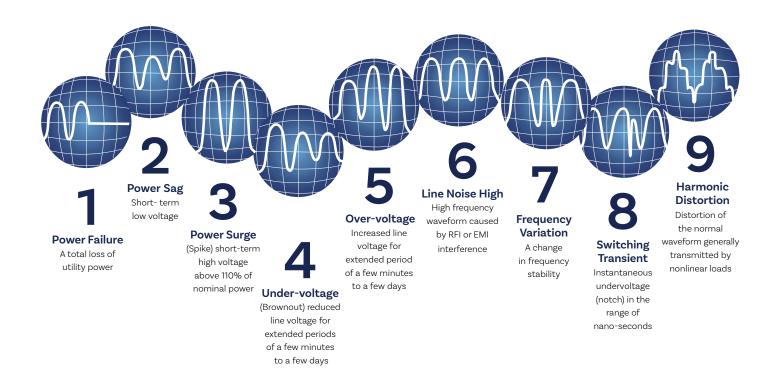
# UNINTERRUPTIBLE POWER SUPPLY

ENTRY LEVEL UPS CATALOGUE



# **9 Common Power Problems**

THAT CAN HARM YOUR COMPUTERS AND CORRUPT YOUR DATA



#### Series

### **Essential Solutions:** Protection from three problems







#### Series

Intermediate Solutions: Protection from five problems











#### Series

Complete Solutions: Protection from all nine problems



















#### **Eaton Series 3** Single-phase UPS







Series 3 UPSs primarily protect against three of the nine most common power problems. This basic, cost-effective protection is necessary in order to prevent damage such as data loss, file corruption, flickering lights, hardware damage, and equipment shutoff. For example, if your utility fails, you could lose all of your work-in-progress. Series 3 UPSs offer a degree of protection against the remaining power problems and are most commonly used to protect single workstations and point-of-sale (POS) equipment.

#### **Eaton Series 5** Single-phase UPS









Series 5 UPSs are most effective against five of the nine most common power problems and offer a degree of protection against other power problems. Some of the damages you risk by not using a Series 5 UPS include premature hardware failure, data loss and corruption, data error, keyboard lockup, storage loss, and system lockup. Series 5 UPSs are recommended for small network systems - all the way up to enterprise networking environments.

# **Eaton Series 9**





Sag



Surge



voltage



voltage



Noise



Variation



Transient



Single-phase UPS

Series 9 UPSs protect against all nine of the most common power problems. Our comprehensive protection minimizes the opportunity for component stress, burned circuit boards, data crashes and program failures. Series 9 UPSs offer the highest level of power protection available and are always recommended for mission-critical applications like high-end servers, hospitals and voice over IP applications.



#### Power Protection for Office & Home Computer Equipment

#### **EATON 550 - 700VA**

#### **Protection against power problems**

- The Eaton 3S UPS helps to protect your computer equipment from everyday events such as lightening strikes, storms, over-demand on the utility grid, accidents, and natural disasters knocking out power without warning.
- In the event of a total blackout, the unit provides sufficient battery backup time to last through most power outages.
- The 700VA model saves up to 30% energy through its EcoControl function which automatically disables peripherals when the master device, such as a computer, is turned off.
- The shutdown software makes it possible to automatically save your work and shut down your application without losing any data. Once the power is restored, you can continue working exactly where you left off.

#### Easy integration and installation

- Attractive design and glossy finish make the 3S a perfect fit for the modern office environment.
- The 3S comes with 6 Australian outlets for easy connection of typical computer configurations with peripherals.
- The 3S features a HID-compliant USB port (cable supplied), for automatic integration with common operating systems (Windows/Mac OS/Linux).
- Compact unit fits on or under your desk or can be mounted on a wall.
- · Easy-to-replace battery helps to extend UPS service life.











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Specifications	3S550AU 3S700AU				
Application					
Output connection	3 outlets with battery backup and surge p	rotection + 3 outlets with surge protection			
Characteristics					
Input voltage	Up to 161-284	V (adjustable)			
Output voltage	240 V (settable to 22	20 V, 230 V or 240 V)			
Frequency	50-60 Hz	autoselect			
Input protection	Resettable ci	ircuit breaker			
Battery					
Battery type	Compact, sealed lead-acid (replaceable)				
Battery test	Yes	Yes			
Cold start (no mains power)	Yes	Yes			
Deep-discharge protection	Yes	Yes			
Battery replacement indicators	LED	LED			
50% load backup	10min	9min			
70% load backup	6min	6min			
Communication					
Communication types	Communications port HID-compliant USB port for a systems (Windows, Linux,	automatic integration with most common operating Mac OS X), cable supplied			
Line protection					
Line protection types	Tel/fax/modem/i	nternet/Ethernet			
Dimensions, weight and colour					
Dimensions H x W x D	86 x 140 x 335mm	86 x 170 x 335mm			
Weight	2.9 kg	3.8kg			
Colour	Black	Black			
Customer service and support					
Warranty	3-year warranty on electronics, 2-year warranty o	on battery - extended warranty options available			

#### **3S APPLICATIONS**





DESKTOP



POS



**3S OPTIONS** 



EXTENDED WARRANTY



ADDITIONAL SURGE PROTECTION

#### **EATON 600 - 1400VA**

#### **Introducing the E Series NV UPS**

The E Series® NV line interactive uninterruptible power supply (UPS) provides affordable power protection for your personal computers, home, office and other electronic devices. While packed with valuable features such as plentiful power receptacles and USB communications, the compact size is ideal for limited office and home working spaces.

#### **Product Snapshot**

- Power Rating: 400, 600, 800, 1000, 1400VA tower models
- · Voltage: 162 to 290Vac
- Frequency: 50/60 Hz (auto-sensing)
- Technology: Line Interactive with Automatic Voltage Regulation





WINPOWER software monitors power conditions and gracefully shuts down computer applications prior to battery depletion









ver	Powe
ure	Sag

Specifications	ENV600HA	ENV1000HA	ENV1400HA		
Rating (VA/W)	600/360	1000/600	1400/840		
Technology	Line	e Interactive with Automatic Voltage Regula	tion		
Input/Output					
Input Voltage Window	170~280	160~280	166~280		
Output Voltage on Battery		230V			
Frequency		50/60Hz, auto-detection			
Output Receptacles	2 ea, 3 pin Aust sockets	4 ea, IEC style (1 ou	tput cable included		
Input Connection		1.8M IEC input cable included			
Battery Load					
100W	18	35	45		
120W	14	-	-		
200W	-	14	25		
400W	-	6	10		
600W	-	-	4		
Start-On-Battery	Unit can be started withou	t being connected to AC utility power - allow	vs for portable power source		
User Interface					
Visual	1 ON/OFF button, 1 indicator LED	1 ON/OFF button, six indica	tor LEDs, including load level		
Audible		Five audible alarms indicate operating mode	es		
Communications/Management					
Power Management Software	WINPOWER	power management software, downloadab	le via internet		
Connection Type		USB port, with included USB cable			
Dimensions and weights					
Dimensions (high voltage models)	140 x 100 x 330mm	205 x 145	x 385mm		
Weight (high voltage models)	6kg	9.6kg	10.5kg		

#### **NV APPLICATIONS**







POS



**NV OPTIONS** 







ADDITIONAL SURGE PROTECTION

#### Essential Power Protection for Workstations & POS Equipment

#### **EATON 650 - 2000VA**

#### **Performance**

 The Eaton 5E UPS provides effective power protection, even in disturbed electrical environments. Voltage fluctuations are automatically corrected using an AVR device (booster/fader), without needing the batteries.

#### Reliability

- Trust a leading manufacturer with decades of experience dedicated to developing reliable power quality equipment.
- Rely on batteries anytime: 5E batteries are permanently recharged (even when the UPS is turned off but mains is present). 5E can start without mains (cold-start).

#### Versatility

- 5E's compact form factor allows it to be easily integrated into environments with space constraints.
- The 5E features an HID-compliant USB port, for automatic integration with common operating systems (Windows/ Mac OS/Linux). 5E is compatible with Eaton UPS Companion power management software.
- 650 & 850VA models have no fan so are perfect for deployment at an operators workstation, where fan noise can be an issue.











Power Sag







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Specifications	5E650IUSB-AU	5E850IUSB-AU	5E1100IUSB-AU	5E1500IUSB-AU	5E2OOOIUSB-AU	
Rating (VA/W)	650VA/360W	850VA/480W	1100VA/660W	1500VA/900W	2000VA/1200W	
Electrical Characteristics					'	
Technology		Line-Interactive (AVR with Booster + Fader)				
Input voltage range			170-280V			
Output voltage			230V			
Frequency			50-60 Hz autoselect			
Connections						
Number of AUS outlets	2 3					
Batteries						
Typical backup times for 1 PC*	16 min	20 min	45 min	50 min	50 min	
Typical backup times for 2 PC*	6 min	8 min	20 min	26 min	26 min	
Typical backup times for 3 PC*	-	-	7 min	10 min	10 min	
Typical backup times for 4 PC*	-	-	-	-	5 min	
Battery management		Permar	ent battery charge, col	d start		
Communication						
User Interface			LED			
Communication	Port HID-co	mpliant USB port for au (W	tomatic integration with /indows, Linux, Mac OS )	n most common operat X)	ing systems	
Dimensions & Weight						
Dimensions H x W x D	148 x 100	x 288 mm		180 x 133 x 330 mm		
Weight	4.6kg	5.1kg	9.3kg	10.5kg	10.5kg	
Customer Service & Support						
Warranty			12 months			

# DESKTOP POS AV



#### **5S UPS**

#### Affordable Power Protection for Workstations & POS Equipment

#### **EATON 550 - 1600VA**

#### **Performance**

- The Eaton 5S UPS provides effective power protection, even in disturbed electrical environments. Voltage fluctuations are automatically corrected using an AVR device (booster/fader), without needing the batteries.
- The 5S not only provides a supply with battery backup to keep equipment operating during power cuts, but also provides effective protection against damaging surges.

#### Reliability

- The 5S protects networked equipment from "back door" power surges coming through Ethernet, internet or telephone lines.
- The 5S's periodic automatic battery testing ensures early detection if a battery needs to be replaced.
- The easy-to-replace battery helps to extend the UPS service life.

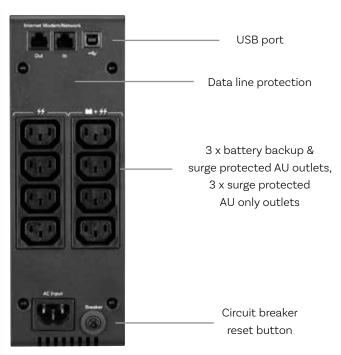
#### Versatility

- The 5S can be installed vertically over or under a desk, or horizontally under a screen. Its compact, slimline form factor even allows it to be easily integrated into environments with space constraints.
- The 5S features an HID-compliant USB port, for automatic integration with common operating systems (Windows/ Mac OS/Linux). The 5S is also compatible with Eaton UPS Companion power management software.
- All models come bundled with a USB cable for PC connection.

#### **Energy Saving**

 Reduce wasted energy consumption from standby power drain of connected peripheral equipment with ECO Control function (850-1600VA models)









Failure



Sag



Surge





Over-voltage

Specifications	5S550AU	5S700AU	5S850AU	5S12OOAU	5S1600AU
Rating (VA/W)	550VA/330W	700VA/420W	850VA/510W	1200VA/750W	1600VA/1000W
Electrical Characteristics					
Technology	Line-Interactive (AVR with Booster + Fader)				
Input voltage range			175-275V		
Output voltage			240 V		
Frequency			50-60 Hz autoselect		
Connections					
Number of AUS outlets	6				
Outlets with surge protection and battery backup/Outlets with surge protection only	3/3				
Batteries					
Typical backup times at 50 and 70% load*	10/6 min	9/5 min	10/6 min	14/8 min	11/8 min
Battery management	Automatic	battery test, deep-discha	arge protection, cold-sta	art capable, replaceable	batteries
Communication					
User interface	LE	ED		LCD	
Communication port	HID-comp	oliant USB port for autom (Windows,	natic integration with me Linux, Mac OS X) cable s	ost common operaring supplied	systems
Data line protection		Tel/Fax/I	Modem/Internet abd Etl	hernet	
Dimensions & Weight					
Dimensions H x W x D		250 x 87 x 250 mm		250 x 87 x	382 mm
Weight	4.96kg	5.98kg	6.50kg	9.48kg	11.08kg
Customer Service & Support					
Warranty		2 year	warranty including batte	eries	







#### **5SC UPS**

#### Affordable Power Protection for Servers & Networking Systems

#### **EATON 500 - 1500VA**

#### **Manageability**

- The LCD interface provides clear status of the UPS key parameters such as input and output voltage, load and battery level, and estimated runtime. Essential configuration capabilities are also offered for output voltage, audible alarm and sensitivity.
- The 5SC offers USB and serial connectivity. USB port is HID compliant for automatic integration into Windows, Mac OS and Linux.
- A slot for an optional communication card (including SNMP/ Web card or relay contact card) is available on rack and R/T models. Eaton's Intelligent Power® Software Suite ensures compatibility with all major OS including virtualization software.

#### Reliability

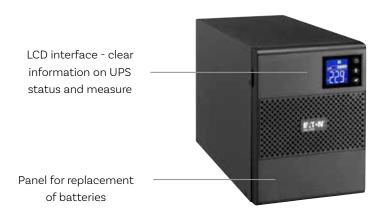
- Pure sinewave output: When operating in battery mode the 5SC provides a high quality output signal for any sensitive equipment connected, such as active PFC (power factor corrected) servers.
- Buck and Boost operation corrects a wide range of input voltage variations through continuous regulation, without the use of batteries.
- Stronger, longer battery life: Eaton ABM® battery management technology uses an innovative three-stage charging system that extends battery life by up to 50%.

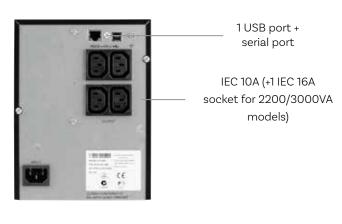
#### **Flexibility**

- Rack models are designed to fit into short depth wall enclosures down to 500mm, 2 post racks or to be wall mounted.
- R/T models authorizes either tower or rack installation pedestals and rail kits are included with all models at no extra charge.
- Tower models small size for easy integration even with space constraints (kiosks, cash machines, ticket machines etc.) and up to nine outlets for better flexibility!
- Easy battery replacement from front panel to extend UPS life.





















Power Power Under- Ove Failure Sag Surge voltage volt

Specifications	5SC500i	5SC750i	5SC1000i	5SC1500i	
Rating (VA/W)	500VA/350W	750VA/525W	1000VA/700W	1500VA/1050W	
Format	Tower	Tower	Tower	Tower	
Electrical Characteristics					
Technology		Line-Interactive (AVR w	vith Booster + Fader)		
Input voltage range without using batteries		184 to 276 V			
Output voltage and frequency	230V (-10	0/+6 %) (Adjustable to 220/230/	240 V), 50/60 Hz ± 1Hz (Autose	ensing)	
Connections					
Input	1 IEC C14 (10A)				
Output for tower models	4 IEC C13 (10A) 6 IEC C13 (10A) 8 IEC C13 (10A)				
Batteries					
Typical backup times @ 50% and 70% load*	13/9	13/9	12/8	13/8	
Battery management		ABM, automatic battery test,	deep discharge protection		
Communication					
Communication Ports	1 USB port + RS232 serial port (I	USB and RS232 cannot be used for Network-MS card		rd slot (Rack and R/T mo	
perating conditions, standards and approvals					
Operating temperature		0 to 35°C (tower models), 0 to 4	40°C (Rack and R/T models)		
Noise level		<40dB (tower models), <45d	B (Rack and R/T models)		
Dimensions & Weight					
Dimensions for Tower models	210 x 150 x 240 mm	210 x 150 x	340 mm	210 x 150 x 410 mr	
	CClor	10.4kg	11.1kg	15.2kg	
Weight for Tower models	6.6kg	101.118	9		

<sup>\*</sup> Runtimes are shown @ 0.7 power factor. Backup duration is approximate and may vary with equipment, configuration, battery age, temperature, etc.

Battery Runtimes (in minutes)				
Load	5SC500i	5SC750i	5SC1000i	5SC1500i
200VA/140W	16.5	25	37	85
300VA/210W	10.5	16.5	23	41
500VA/350W	5	10	13	22
750VA/525W		5	7.5	13
900VA/630W			6	10.5
1000VA/700W			5	9
1200VA/840W				7
1500VA/1000W				5

#### **EATON 650 - 1500VA**

#### **Manageability**

- The graphical LCD display provides clear information on the UPS's status and measurements on a single screen (in seven languages). Enhanced configuration capabilities are also available with easy-to-use navigation keys.
- Load segment control enables prioritised shutdowns of nonessential equipment to maximise battery runtime for critical devices. Load segment control can also be used to remotely reboot locked-up network equipment or to manage scheduled shutdowns and sequential start-ups.
- The 5P offers Serial and USB connectivity, plus an extra slot for an optional communication card (including SNMP/ Web card or relay contact card). Eaton's Intelligent Power
   Software Suite compatible with all major OS including virtualization software such as VMware and Hyper-Vis included with each UPS.

#### **Availability and Flexibility**

- 5P is available as a tower or rack form factor to cater for varied deployment applications.
- Stronger, longer battery life: Eaton AB M® battery management technology uses an innovative three-stage charging technique that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.
- Batteries can be hot-swapped without ever having to shut down connected equipment. With an optional, hot-swap maintenance bypass module, you can even replace the entire UPS.

#### **Features**

- · Remotely switchable outlet groups
- · Remote on/off, remote power terminal
- · Primary outlet group
- · Communications card slot
- · Serial port
- USB Port









Failure



Power Sag



Surge





Overvoltage

Specifications (tower/rack)	5P650AU/ 5P650IR	5P850AU/ 5P850IR	5P1150AU/ 5P1150IR	5P1500AU/ 5P1150IR		
Rating (VA/W)	650VA/420W	850VA/600W	1150VA/770W	1550VA/1100W		
Format		Tower or 1F	RU Rack			
Electrical Characteristics						
Technology	Li	ne-Interactive High Frequency (F	Pure Sinewave, Booster + Fader)			
Input voltage range without using batteries	16	60V-294V (adjustable to 150V-29 56.5 to 70 Hz (60 Hz system), 4				
Output voltage and frequency	230	0 V (+6/-10 %) (Adjustable to 200 50/60 Hz+/- 0.1 %		),		
Connections						
Input		Tower: Fixed line cord 10A AU 1.8mtr Rack: IEC C14 (10A) socket				
Outputs	Tower: 2 x AU 10A, 3 x IEC C13 (10A)  Rack: 4 x IEC C13 (10A)  Tower: 2 x AU 10A, 3 x IEC C13 (10A)  Rack: 6 x IEC C13 (10A)					
Remotely controlled sockets	Tower: 2 x 10A AU individually switched Rack: 2 x IEC C13 (10A) individually switched  Tower: 2 x 10A AU individually switched Rack: 3 x IEC C13 (10A), grouped 2+1 switched					
Batteries						
(Typical backup times for 50 & 70% load*)	9/5.5 mins	12/7.5 mins	12/7.5 mins	13/8.5 mins		
Battery management		mpensated charging method (us protection, to automatic recogni		ry test, deep discharge		
Interfaces						
Communication Ports		erial port and relay contacts (US 1 mini terminal block for remote		sed simultaneously)		
Communications card slots		1 slot for NETWORK-MS, MODE	BUS-MS or RELAY-MS cards			
Operating conditions, standards and approvals						
Operating temperature		Models 650,850 & 1550 = "0-3	5'C", Model 1550 = "0-40'C"			
Noise Level		< 40d	BA			
Dimensions & Weight						
UPS Dimensions (mm) & weight (kg) - Tower	150 x 345 x 230mm 7.8kg	150 x 345 x 230mm 10.4kg	150 x 345 x 230mm 11.1kg	150 x 445 x 230mm 15.6kg		
UPS Dimensions (mm) & weight (kg) - Rack	438 x 364 x 43.2mm(1 RU) 8.6kg	438 x 509 x 43.2mm(1 RU) 13.8kg	438 x 509 x 43.2mm(1 RU) 13.8kg	438 x 554 x 43.2mm(1RU) 19.4kg		
Customer Service & Support						



Warranty





3 years





EXTENDED WARRANTY



ADDITIONAL SURGE PROTECTION



#### **Liebert PSA UPS**

## Power Protection for Small Office Computers & Electronic Equipment

#### **LIEBERT 500 - 1500VA**

#### **Manageability**

Designed with simple controls for easy operation, the Liebert PSA provides up to five minutes of back-up time at full load, more than enough time to save work in process and shut down your system.

Shutdown software and a USB cable are also included, to allow remote alerts and automated graceful shutdown of the connected systems.

#### Flexibility:

- Available in four sizes, including 500, 650, 1000 and 1500VA; 120VAC or 230VAC
- Three to six battery-backed UPS outlets, depending on model size
- · One to two surge-only outlets, differentiated by color
- USB communications/shutdown software and cable included
- · User replaceable batteries

#### Reliability:

- · Up to five minutes of battery backup time at full load
- Full sequenced battery testing to ensure batteries are available when needed
- Advance early warning of UPS shutdown
- · Lightning and surge protection (TVSS)
- RJ-45 port for data line surge protection

#### Ideal for protecting:

- · Professional Desktop PCs
- · Professional Workstations
- · Small Routers, Bridges and Hubs
- · Point-of-Sale Terminals
- · Other Sensitive Electronics







Packaging



Failure



Sag



Surge



voltage



Specifications	PSA500MT3-230U	PSA650MT3-230U	PSA1000MT3-230U	PSA1500MT3-230U		
Capacity VA/W	500/300	650/390	1000/600	1500/900		
Net Weight: kg	5.4	5.9	9.5	11.6		
Shipping Weight: kg	6.3	6.8	10.7	12.8		
Dimensions: W x D x H, mm	95 x 35	6 x 171	147 x 360 x 234			
On-Line Mains Voltage	160-287VAC					
On-Line Frequency	50/60Hz ±5Hz					
Output Voltage (Mains Normal)		Typical 185-252VAC				
Output Voltage (Battery Operation)		230VAC ±5%				
On-Battery Wave Form	Stepped Sinewave					
Battery Type - VDC x Ah - Quantity	12V x 7.	12V x 7.2Ah x 1 12V x 7.2Ah x 2				
Typical Recharge Time		6-8 hours	s to 90%			
Battery Run Time* (Full load)		3-5 mi	nutes			
Battery Run Time* (Half load)		10-13 m	inutes			
Audible and Visual		Audible ala	arm / LED			
Backup Sockets	IEC 320	C13 (3)	IEC 320	C13 (6)		
Surge Sockets	IEC 320	C13 (1)	IEC 320	C13 (2)		
Operating Temperature, °C		0 to	40			
Storage Temperature, °C		-15 to	o 40			
Operating / Storage Relative Humidity		0%-90%, non	n-condensing			
Warranty		2 years standard (+ 1 year w	arranty extension available)			
Packaging	User Manual on CD,		/ Instruction Sheet, environmen	t protection sheet,		

(2) IEC output cables for 500/650VA, (3) IEC output cables for 1000/1500 VA

#### High Performance Power Protection 1kVA - 3kVA

#### LIEBERT 1KVA - 3KVA

#### **Manageability**

The Liebert® GXT MT+ features best-in-class power protection for critical applications with the use of true online double conversion technology. The Liebert® GXT MT+ has a comprehensive specification that provides a higher level of availability to the IT equipment. It satisfies safety criteria and electromagnetic compatibility standards while offering intelligent monitoring and network management functions. This high performance UPS with proven reliability is available in compact tower design.

#### Suitable for

- · Small Size Data Center
- · Telecommunication Equipment
- VoIP
- · Small Office Network
- · Computer Rooms
- · Process Automation Equipment
- · Network Storage Devices

#### **Features**

- · Double conversion on-line technology
- · Compact tower design
- · Standard models
- Extended runtime capabilities by building up additional battery resources
- · Flexible (site specific) battery configuration
- · Standard model comes with internal battery
- Generator-compatible with wide input frequency range (40 to 70 Hz)
- · 0.8 output power factor
- · Class B electromagnetic interference (EMC)
- · Ultra wide input voltage range
- · High input power factor and low THDi
- · Emergency power off (EPO)
- · Configurable to energy saving mode (ECO)
- LCD display for operational convenience and status/fault information
- Multiple AC output interfaces via IEC standard sockets with programmable outputs
- Remote Monitoring is available through USB/RS232, and optional via dry contacts and SNMP







Failure



Sag



voltage

Surge



voltage



Noise







Specifications		GXT1KVA		GXT:	2KVA		GXT3H	(VA
Capacity VA/W≠		1000 VA / 800 W		2000 VA	/ 1600 W	3	3000 VA / 2	.400 W
	Low Line Transfer	(based on lo	160 Y	VAC / 140 VAC / 1:	20 VAC / 110 VAC ± % / 80 % - 70 % /	5 % 70 - 60 %	6 / 60 % - (	))
	Low Line Comeback	(20000000000000000000000000000000000000	ша рогоо		C ± 5 %	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 00 70	,
Voltage Range	High Line Transfer			300 VA	AC ± 5 %			
	High Line Comeback			290 VA	AC ± 5 %			
Frequency Range				40Hz	~ 70 Hz			
Phase				Single phase	e with ground			
Power Factor			≥ 0.99 @ 220-230 VAC (input voltage)					
Output Voltage		208/220/230/240VAC						
AC Voltage Regulation (Batt. Mode)				± 3% (Ba	att. Mode)			
Frequency Range			47 ~ 5	53 Hz or 57 ~ 63 H	Iz (Synchronized R	Range)		
Frequency Range (Batt. Mode)				50 Hz ± 0.1 Hz	or 60 Hz ± 0.1 Hz			
Overload		110%-130%: UPS shuts		30 seconds at ba utility is ately at battery m	s normal.		-	
Current Crest Ratio				3:1 (	max.)			
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)			≤ 4 % THD (Linear Load) ≤ 7 % THD (Non-linear Load)			
	AC Mode to Batt. Mode	0						
Transfer Time	Inverter to Bypass	4ms (typical)						
Waveform (Batt. Mode)				Pure Si	inewave			
Battery AC Mode		~ 85%		~ 8	3%	~ 88%		6
	Battery Type	12 V / 7 AH		12 V ,	/7 AH	12 V / 9 AH		АН
	Numbers	3		(	6		6	
Standard model	Typical Recharge Time		4 h	ours recover to 9	0% capacity (typi	cal)		
	Charging Current			1.0A	(max.)			
	Charging Voltage	41.0VDC ± 1%					82.1 VDC	±1%
	Numbers	3		(	6		6	
Long back up model	Charging Current			4.0 A or 8	.0 A(max.)			
	Charging Voltage	41.0VDC ± 1%					82.1 VDC	±1%
	Dimension, D X W X H	397 x 145 x 220 (mr	n)			39	97 x 145 x 2	20 (mm)
Tower case	Net Weight (kgs)	13 7	7	26	13	28	3	13
Operation Humidity		20-90	% RH @ 0	)- 40°C (non-cond	densing)			
Noise Level			Less thar	n 45dBA @ 1 Mete	er			
Smart RS-232 or USB		Supp	oorts Win	dows®, Linux, and	IMAC			
Optional SNMP		Power managen	nent from	n SNMP manager	and web browser			
Model	Battery	25%		50%	75%		1	100%
GXT-1000MTPLUS230	12V/7AH x 3pcs	38.0		14.0	7.5			4.5
GXT-2000MTPLUS230	12V/7AH x 6pcs	40.0		14.0	7.5			4.5
GXT-3000MTPLUS230	12V/9AH x 6pcs	31.0		12.0	7.0			4.5



Failure



Sag



Surge





voltage



voltage

EATON 5SX 1250 - 3000VA



#### **Manageability & Flexibilty**

- The LCD interface provides clear status of the UPS key parameters such as input and output voltage, load and battery level, and estimated runtime. Essential configuration capabilities are also offered for output voltage, audible alarm and sensitivity.
- The 5SX offers USB and serial connectivity. USB port is HID compliant for automatic integration into Windows, Mac OS and Linux.
- A slot for an optional communication card (including SNMP/ Web card or relay contact card) is available. Eaton's Intelligent Power® Software Suite insures compatibility with all major OS including virtualization software.
- R/T models authorizes either tower or rack installation
   pedestals are included, rail kits are an optional extra.
   (5SXRACKKIT2U).
- Easy battery replacement from front panel to extend UPS life, and up to 4 EBMs can be added for longer runtimes.

#### **EATON 5PX 1000 - 3000VA**



#### **Energy Efficient Power Protection**

- The 5PX is available in a rack/tower convertible version pedestal and rail kits are included with all models at no extra charge.
- Stronger, longer battery life: Eaton ABM® battery management technology uses an innovative three-stage charging technique that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.
- Batteries can be hot-swapped without ever having to shut down connected equipment. With an optional, hot-swap maintenance bypass module, you can even replace the entire UPS.
- There is also the possibility to add more runtime with up to four external hot-swappable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognised by the UPS.











voltage



voltage



Noise





Variation



Transient



**EATON 9SX TOWER 750 - 3000VA** 



#### Performance, Efficiency & Flexibility

- Double conversion topology. The Eaton 9SX constantly monitors power conditions and regulates voltage and frequency.
- With up to 95% efficiency in online double conversion mode the 9SX provides the highest efficiency level in its class to reduce energy & cooling costs.
- With a 0.9 power factor the 9SX delivers 28% more power than any UPS in its class. It powers more servers than other UPSs with equivalent VA ratings and lower power factors.
- More runtime can be added with up to 12 external hotswappable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognized by the UPS.
- With its rack/tower versatile form factor the 9SX can be installed in any environment (rack kit provided as standard on RT versions).

#### **EATON 9PX 1000 - 11000VA**



#### **Energy Efficient Power Protection**

- 9PX 2200 & 3000 are available in RT2U format (optimised for rack mounting) or RT3U (for tower or short-depth racks), pedestal and rail kits are included with all models.
- The internal bypass allows service continuity in case of internal fault, a maintenance bypass is also available (as standard on HotSwap version) for easy replacement of the UPS.
- Stronger, longer battery life: Eaton ABM® battery management technology uses an innovative three-stage charging technique that extends battery life by up to 50%.
- More runtime can be added with up to 4 external hotswappable battery modules, able to run systems for hours if necessary.













voltage



voltage



Noise



Variation





Transient Distortion

EATON 93PS



#### **Features**

The most advanced UPS in its power range, the Eaton 93PS is ideal for small data centres and other mission critical applications where efficiency, reliability, safety and scalability are essential.

The rapid adoption of the cloud, constant evolution of IT technologies, increased focus on environmental footprint and sophistication of mission critical applications is demanding even more efficient, resilient, scalable and safe power protection solutions.

The new levels of efficiency and scalability offered by the 93PS minimise Total Cost of Ownership while the safety and resiliency, both in infrastructure and IT layers, maximise availability and ensure business continuity.

#### **EATON 93PM**



#### The Complete Solution

The Eaton 93PM UPS is designed for the most advanced IT environments, and it comes with interfaces for Web and SNMP as standard. In the event of an alert, the UPS system notifies users and administrators by email. If there's a prolonged power failure, the protected computer systems can be shut down smoothly using the Intelligent Power® Protector software also incorporated with the 93PM.

Your 93PM can be connected directly to your corporate network and the internet. This means you can then monitor and manage your UPS through a standard web browser.



#### **Our Services**

#### Ask us about what we can offer your business

#### **COMMISSIONING**

Our factory trained technicians meticulously follow a commissioning process for your particular UPS to get your system up and running.

Prior to powering up your UPS, our technician will inspect the power module and battery connections and verify the input and output wiring. Once the installation is deemed safe, the commissioning process starts. This includes UPS configuration, measuring and setting the batteries and verifying/calibrating the UPS to factory specifications.

The final step consists of testing on mains and often generator (prior notice required). Post-commissioning, full reporting is provided and YHI Energy adds the asset to our service data base, which will enable prompting of preventive maintenance visits as well as hold all history of your UPS service documentation for easy access by both our technicians and you, the customer.



#### **PREVENTATIVE MAINTENANCE**

As important, if not more so, than the correct design and commissioning of your system, is preventive maintenance.

Our experienced technicians are often able to pick up on electronic failures before they even happen. By investing in Preventive Maintenance, you give your UPS the best chance of protecting your critical load in the event of mains fluctuation or total loss.

We provide full reporting and recommendations for every Preventive Maintenance visit we perform and often tailor our reporting style to meet the requirements of Facilities Managers and Maintenance Planners.



#### **SERVICE PLANS**

YHI Energy has a range of service plans to suit every application and budget. By committing to a UPS service plan, you are ensuring that your investment is kept at optimum health for when you need it most.

Our service plans range from fully comprehensive parts & labour inclusive, to simple onsite resolution SLAs. Take the stress out of maintenance planning by engaging with YHI Energy - we take care of preventive maintenance scheduling right through to emergency break fix work.



