

UPSONIC POWER

ALTO *ES SERIES II*



- High Output Power Factor Rating with Improved Efficiency 0.9 PF
- Line Interactive with Pure Sinewave Output
- Models Ranging from 1000 VA to 7500 VA with External Battery Pack options available for all models
- Line Interactive with Pure Sinewave Output
- Innovative Design with User Friendly Rotatable LCD Graphic Display
- Extensive Communication Options Available
RS232 – Dry Contact – USB – SNMP



Office



Industrial



Mission Critical



B to B

Upsonic Business Protection

To find out more contact
1800 634 307

Business based UPS Solutions

**POWER FOR THE
NON-STOP WORLD**

www.upsonic.com.au

RACK/TOWER DESIGN

Specifications - Alto ESAT Tower

Line Interactive Sine wave output		Tower UPS			Rack/Tower Long Runtime		Batt Pack
Model	Energy Saver Series (ES xxx)	ESAT 10	ESAT 15	ESAT 20	ESALR 50	ESALR 75	ESA BP 3RU
Capacity	VA/Watt	1000/625	1500/938	2000/1250	5000/3125	7500/4688	
Input	Nominal Voltage	230 VAC					
	Wave Form	Pure Sine Wave					
	Voltage Range	170 VAC ~ 300 VAC					
	Frequency	45Hz - 70Hz auto sensing					
Output - AVR Settings	Boost Transfer	208VAC ± 2%					
	Boost Return	218VAC ± 2%					
	Buck Transfer	252VAC ± 2%					
	Buck Return	242VAC ± 2%					
	Low Voltage Transfer to Battery	190VAC ± 2%					
	Low Voltage Return	200VAC ± 2%					
	High Voltage Transfer to Battery	286VAC ± 2%					
	High Voltage Return	276VAC ± 2%					
	Efficiency	> 80%					
Overload Protection	Line Mode	> 110% then buzzer alarm and amber LED continuously blinking					
	Battery Mode	110% ~ 150% for 30 seconds: > 150% for 200ms, then UPS Shuts Down					
Short Circuit Protection	Line Mode	Circuit Breaker					
	Battery Mode	Electronic Circuit					
Cold Start	DC Start	Yes					
Transfer Time	Typical	< 4ms					
Battery Voltages		24 VDC	36 VDC	36 VDC	48 VDC		Various
Battery Amp		7.2 Ah	7.2 Ah	9 Ah			16 x 7.2 or 9 Ah
LCD Display		UPS status; I/P & O/P Voltage frequency; Load Level; Battery voltage & Level internal temperature Normal Green					
Audible alarm	Battery Mode	Beeping every 4 seconds					
	Low Battery	Beeping every 1 second					
	UPS Fault	Continuous Beep					
	Overload	Beeping 2 x every second					
Communications Interface		RS232; SNMP; USB; Dry Contact & AS 400 Options.					
Dimensions	(WxHxD in mm)	145/210/380	145/210/445	145/210/445	440/132/465		440/132/465
Net Weight	Kg	16.5	17.5	22.5	34.6		45
Environment	Operating Environment	0 - 40 Deg Relative Humidity 0 - 95% Non Condensing					
	Noise Level	Less than 55dBA (@1.0 Meter)					
Outlets / Connections		3 IEC	3 IEC	6 IEC	5 IEC+ Terminal Block		

Specifications - Alto ESART Rack/Tower

Model		ESART1000	ESART2000	ESART3000
Capacity	Watt	1000/900W	2000/1800W	3000/2700W
Input	Input voltage range	161-276VAC		
	Frequency range	50/60Hz ±5Hz for Normal Mode 40-70Hz for Generator Mode		
Output	Voltage	220/230/240VAC		
	Voltage Regulation (Batt. Mode)	±5% 230 VAC		
	Frequency	50Hz or 60Hz		
	Waveform	Pure sinewave		
Overload rating	Line Mode	110% -0%, +8%: shutdown after 3 minutes. 150% -0%, +10%: shutdown after about 200ms		
	Battery Mode	110% ± 6%; shutdown after 30 seconds. 120 % ± 6 %; Shutdown after about 100ms		
Internal battery	Battery Type	12V/7AH	12V/7AH	12V/9AH
	Quantity	3	6	6
	Recharge Time	3 hours to 90% after discharged	3 hours to 90% after discharged	4 hours to 90% after discharged
External battery	Battery Type	12V/7AH	12V/7AH	12V/9AH
Interface	RS232	Yes		
	Dry-Contact	Yes		
	USB	Yes		
	SNMP	Optional		
	EPO	Optional		
Operating Environment	Temperature	0 to 40°C		
	Humidity	20%-80% relative humidity (non-condensing)		
	Altitude	<1500m		
	Storage Temperature	>-15 to 40°C		
Dimensions	(WxHxD in mm)	438X86.5x436	438X86.5x608	438X86.5x608
	Net Weight Kg	17.8	27.8	27.8
Outlets / Connections		8 x IEC	8 x IEC	8 x IEC - 1 x 15A
Indicator	AC Mode	NORM---normal mode		
	Backup Mode	Show "bATT" and sounding every 4 seconds		
	Load/Battery Level	LCD showing		
	UPS Fault	LCD show red screen and " **** "		
	Overload	LCD show red screen and " OVLD "		
Audible Alarm	Low Battery	LCD show red screen and " bTLW "		
	Backup Mode	Sounding every 4seconds		
	Low Battery	Sounding every second		
	UPS Fault	Continuously Sounding		
	Overload	Sounding every second		
	Battery Replacement	Sounding every second		

Specifications - ALTO Series II Rack/Tower Reverse Views

ALTO ES Series II

UPS Solutions from Upsonic for Business Applications

The ALTO Series offers a perfect range of UPS to suit a wide variety of applications to ensure your business is not compromised with power problems

Using the latest technology available, the ALTO range ensures your computers and hardware are not susceptible to power surges and discharges thus protecting both data and equipment.

Whether your application is Office, Industrial, Mission Critical or B to B, the ALTO is a product to suit your business.

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Operating System - Winpower Software/Upsilon 2000

- **Windows**
- **95/98/ME/NT/2000/2003/2008/2012/SBS2011/XP/Vista/7/8**
- **Linux**
- **Linux AMD64**
- **Sun Solaris 7/8/9/10**
- **IBM Aix 4.3/5.1x/5.2x/5.3x**
- **HP-UX 11.x**
- **Free BSD**
- **Unix Systems other than the operating systems mentioned**
- **MAC version - Versions per up to Mac 10.6**
- **MAC version - for Mac 10.7 and above**



Reverse ESAT10 and ESAT15



Reverse ESAT 20



Reverse ESART 1000



Reverse ESART 2000



Reverse ESART 3000



Reverse ESALR 50 - 75 (3RU)

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