ES SERIES

Line Interactive ES series (True Sine Wave) 1KVA - 7.5KVA

Rear of
ES 1 and 1.5 KVA Tower

Rear of
ES 2.0 KVA Tower

Rear of
ES 1U 1 and 1.5KVA

Rear of
ES RT/LR 2U 1, 1.5 and 2 KVA

Rear of
ES RT/LR 3U 3KVA

Rear of
ES 7.5 KVA TR 3U

Rear of
ES 5KVA RT 3U

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POWER FOR THE NON-STOP WORLD

UPSONIC POWER

ES 03/05/11

ES SERIES 1KVA - 7.5KVA

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Line Interactive ES series (True Sine Wave) 1KVA - 7.5KVA

- **Pure sine wave**
  Output on Battery
- **Intelligent Charging controlled**
- **98% Efficiency in ECO Mode**
- **Range 1.0KVA - 7.5KVA**
- **Intelligent interactive LCD control panel**
- **Multiple interfaces options: RS232/RS485/MODBUS/USB/SNMP**
- **Compact design**
  Standard and long backup time
- **Cold start**
  Starts on battery, no mains power required
- **Protection against overload, overheating, surges, spikes, short circuit, over charging**
- **Ability to Integrate with Genset**
- **Easy battery replacement**

Due to rising electricity costs, Energy Saving has become one of today's most important issues. It is a trend to operate ECO –Economical mode on big capacity on-line double conversion UPS. This seems to virtually turn UPS back to Stand by (0ff –line) era.

Our new ES pure sine wave line-interactive UPS are based on Energy Saving and Environmental Protection. In addition to providing high quality Sine Wave power and low Harmonic Distortion to support both Linear and Non-linear loads the ES series has a built in wide range AVR (automatic voltage regulator) on Bypass circuit which stabilises power and makes the ES series operate even more effectively and safely than an On-line double conversion UPS operated under ECO mode.

ES pure sine wave line-interactive UPS
vs
on-line double conversion UPS operated under ECO mode

Wider input range: More than 10% wider input main power voltage range than an on-line UPS
High overall efficiency : Consumes much less power than an on-line double conversion UPS during bypass mode operation
Better stability: Concise designed compact unit gives better stability.
Economically smaller: Smaller footprint. Less expense for users.

Exceptional Design . . .

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ES SERIES 1KVA - 7.5KVA

Specifications ES Series

Line Interactive Sine wave output		IRU UPS		Tower UPS			Rack / Tower Option for UPS					Long Run Time UPS require accompanying Battery Pack						Batt Pack
Model	Energy Saver Series (ES xxx)	ES 1RU10	ES 1RU 15	EST 10	EST 15	EST 20	ESRT 10	ESRT 15	ESRT 20	ESRT 30	ESRT 50	ESLR 10	ESLR 15	ESLR 20	ESLR 30	ESLR 50	ESLR 75	ES BP 3 RU
Capacity	VA/Watt	1.0/625	1.5/938	1.0/625	1.5/938	2.0/1250	1.0/625	1.5/938	2.0/1250	3.0/1875	5.0/3125	1.0/625	1.5/938	2.0/1250	3.0/1875	5.0/3125	7.5/4688	
Input	Nominal Voltage	230 VAC																
	Voltage Range	170 VAC ~ 300 VAC																
	Frequency	45Hz - 70 Hz auto sensing																
	Boost Transfer	208 VAC ± 2%																
	Boost Return	218 VAC ± 2%																
	Buck Transfer	252 VAC ±- 2%																
	Buck Return	242 VAC ±- 2%																
	Low Voltage Transfer to Batt	190 VAC ±- 2%																
	Low Voltage Return	200 VAC ±- 2%																
	High Voltage Transfeer to Batt	286 VAC ±- 2%																
	High Voltage Return	276 VAC ±- 2%																
Output	Wave Form	Pure Sine Wave																
	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	24 VDC	24 VDC	36 VDC	36 VDC	24 VDC	36 VDC	36 VDC	36 VDC	48 VDC	24 VDC	36 VDC			48 VDC		Various
Battery Amp		6V 9 Ah	6V 9 Ah	7.2 Ah	7.2 Ah	9 Ah	7.2 Ah	7.2 Ah	9 Ah	7.2 Ah	9AH	Requires ES BP 3 RU Batt Box7.2 OR 9 Ah as required						16 x 7.2 or 9 Ah
LCD Display		UPS status; I/P & O/P Voltage, frequency; Load Level; Battery voltage & Level; internal temperaure Normal Green, Warning AmberFault RED																
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		Various combinations of RS232; SNMP;USB; Dry Contact & AS 400 available as options																
Dimensions(WxHxD in mm)		440/44/515	440/44/515	145/210/380	145/210/445	145/210/445	440/88/465			440/132/465	440/132/620	440/88/465			440/132/465			440/132/465
Net Weight Kg		18	20	16.5	17.5	22.5	16	17.5	24.5	36.9	49.8	16	17.5	24.5	25	34.6		
Environment	Operating Environment	0 - 40 Deg C Relative Humidity 0 - 95% Non Condensing																
	Noise Level	Less than 55dBA (@1.0 Meter)																
Outlets / Connections		4 IEC	4 IEC	3 IEC	6 IEC					10 IEC	10 IEC + TB	6 IEC			10 IEC	5 IEC+Terminal Block		

Note

Big capacity UPS units are used for expensive and precision-made instruments. Accordingly on-line structure design is mostly required. As new technology in control and development is improved, Energy Saving ECO operation mode has become acceptable and is now widely employed by users to preserve precious earth resources and to save expensive running cost . We see it as a monumental change to UPS engineering and this is why we keep focussed our efforts to develop the more efficient and Energy Saving (ES)series.

ES Series range includes 1KVA, 1.5KVA, 2KVA, 3KVA, 5KVA and 7.5KVA.

Please refer to brochures for detail specifications.

Should you require more information or advice. call

1800 634 307

ES SERIES 1KVA - 7.5KVA