

SINCE 1995



TRUE Online

Available in
1-10KVA

FEATURES

- LCD Display
- Active Power Factor Correction
- Customization Available
- User Configurable
- All in One Single Card with DSP controller
- Communication (Optional)
- Inbuilt isolation Transformer(Above 3KVA)
- Single Card Including Inverter, Charger & Power Device



TRUE ONLINE

(Half Electricity Consuming)
1 Phase in - 1 Phase out

In comparison to an SCR based UPS, Its phenomenal saving is more than 4KWH per hour, which is 40 Units a day for 10 hours of work that delivers a saving of 12000 units per year. You save a whooping Rs 60,000 per year. This makes the " Sarthi " UPS almost 'Free' in just a year, while its continues to more savings for the years to come.



ABC Power Systems
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TRUE Online Half Electricity Consuming (1 Phase in - 1 Phase out)

TECHNICAL SPECIFICATION

INPUT

Power Rating	KVA	1	2/3	3	5	6	7.5	10
DC Voltage	V	36V DC	96V DC	96V DC	120 / 180		180	
Voltage Range	V		145 to 280			160 to 280		
Frequency	Hz	50±5%						
Input Power Factor		0.95 @ up tp 120VDC, 0.84 @ 180VDC						
Charge Topology		BUCK - IGBT						
Electrical Connection	Input	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	12 mm ²	16 mm ²	
	Output	1.0 mm ²	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	8 mm ²	
Batt.	96V	4 mm ²	4 mm ²	10 mm ²	12 mm ²	NA		
	120V	4 mm ²	4 mm ²	6 mm ²	12 mm ²	NA		
	180V	2.5 mm ²	4 mm ²	4 mm ²	6 mm ²	10 mm ²		
	Earth	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	12/16 mm ²		

OUTPUT

Load Current	A	3.0	6.0	10.4	15	17.3	26.0	34.7
Voltage	V	220/230						
Voltage Regulation	%	±1						
Frequency (Free Running)	Hz	50±0.05						
Frequency Sink Mode	Hz	47.5 - 52.5						
Wave Form		Pure Sine Wave						
Transient Response	%	<8(10%~90% Liner Load)						
Voltage Harmonic	%	<3 Liner Load						
Over Load Capacity	%	100-110 : 10min 150 - 200 : 10 sec. 110 - 125 : 2min 200 - 300 : 50ms 125 - 150 : 1min						
Crest Factor		3.1						

Battery Back-up Ending | Intermittent

Over Load | Continuous

DISPLAY

LED	UPS ON # Battery High/Low # Overload # O/P High/Low # Charging ON # Mains Low/High, Bypass, Fault/Overheat.
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PROTECTION
Output Overvoltage #Output undervoltage #Overload #Output Short Circuit #Battery Overvoltage #Battery undervoltage, Input Low/High.

PARAMETER

LCD Display	Input Voltage & Frequency, Output Voltage & Frequency, Load %, Charging Current, DC Voltage, UPS Status
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INTERFACE

DB 9 (Optional)	RS 232/ USB Port, Ethernet
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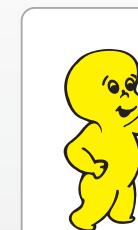
OTHERS

Battery Start	Standard
Cabinet Wheels	NA
Extended Battery Chg.	Optional
Bypass	Auto Bypass By Relay Default Rotary Switch
Auto Bypass (Low-High Cut)	V 185 to 250
Static Bypass (Low-High Cut)	V 185 to 250

OVERALL

Efficiency (AC-AC)	%	>85(Full Load)
Transfer Time (Mains to Batt.)	mS	0
Temperature	°C	0-40
Humidity	%	5-95(Non-Condensed)
Dimension (LxWxH)	mm	406 x 152 x 254 483 x 204 x 305 460 x 260 x 445 610 x 285 x 540 613 x 330 x 670
Weight	Kg	6.5 Kg(W/o Batt.) 15 Kg(W/o Batt.) 45 60 65 70 100

*Specification are subject to change without prior notice due to constant improvement in design & technology.



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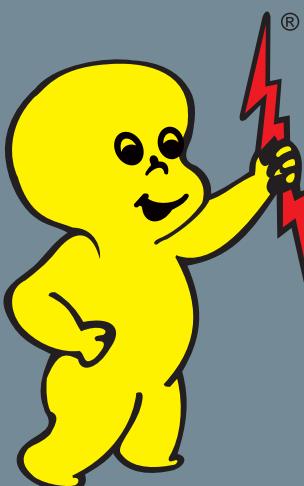
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3 Phase Lift Ups



Available in
6-20KVA



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LIFT UPS (3 Phase in - 3 Phase out)

TECHNICAL SPECIFICATION

INPUT						
Power Rating	Unit	6KVA	8KVA	10KVA	15KVA	20KVA
DC Voltage	V	72	96	120	180	240
Voltage Range	V	300-480				
Frequency	Hz	50/60+5%				
Max. Input current	A	12	16	20	30	40
Total Harmonic Distortion		Less than 10% for full load @ 230 VAC (input)				
Input Power Factor	Lag	>0.9				
Charger Topology		Boost Technology				
Electrical Connection R, Y, B, N	mm	4 Sq.				
Battery	mm	16 Sq.				
Earth	mm	4 Sq. (min.)				
OUTPUT						
Power Capacity	w	5100	6800	8500	12750	17000
Voltage	V	380/400/415 Phase to Phase				
Voltage Regulation	%	+1				
Max. OIP Current! Phase	A	7.5	9.5	12.5	18.5	24.5
Frequency	Hz	50/60 + 0.05				
Power Factor	Lag	0.85				
Wave Form		Pure Sine Wave				
Transient Response	%	<8(10%-90% (Linear Load)				
Voltage Regulation	%	<3 (Linear Load)				
Over Load Capacity	%	100 to 110 : 2 minutes 200 to 250:5 sec 110 to 120 : 45 sec. 250 to 300:3 sec 120 to 150 :25 sec. 300 to 350 : 1 sec 150 to 200 : 15 sec. > 350 : 200 msec.				
Low Battery		Voltage Smart Shutdown				
Protection Circuitry		Output under / Over voltage, 38 sequencing protection Input Low / High Voltage Single Phase Absent, Short Circuit				
Crest Factor		3:1				
AUDIBLE WARNING						
Battery Back - up Ending		Intermittent				
Overload		Continuous				
DISPLAY						
LED		UPS ON # Battery Low High # Output Volt. Low High -R,Y,B # Overload -R,Y,B # Fault # CHG. ON # Input Volt Low:High -R,Y,B #				
LCD (20><4)		Input Voltage & Frequency - R,Y,B # Output Voltage & Frequency -R,Y,B Batt. Voltage # Load Level # Working Status # Fault Status				
BATTERY & RUN TIME						
Battery Type		SMF, AUTOMOTIVE, TUBULER				
Typical recharge Time		15 Hours				
Battery Capacity		65Ah				
OTHERS						
BYPASS		Rotary (Manual Bypass)				
Change Over Time (Selectable)	Sec	0-30 (Mains to Batt.)				
Protection Class		IP 20				
Operating Temperature		0-45				
Storage Temperature		0-60				
Audible Noise		< 60dB at 1meter				
Humidity	%	5-95 (Non-Condensed)				
Dimension (L x W x H)	mm	560 x 343 x 508		620 X 330 x 670	T65 X 410 X 700	985 X 660 x 820
Weight	Kg	58.9	65.2	95.2	120	130

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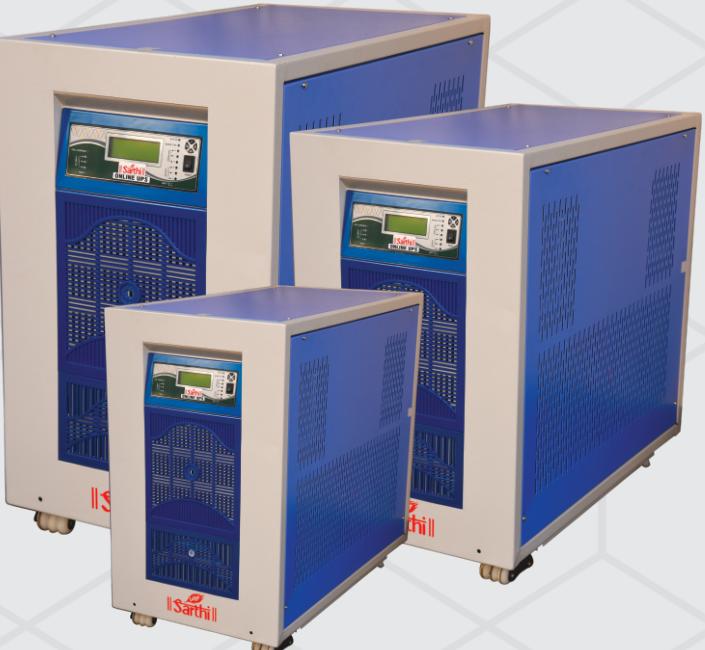
SINCE 1995



II Sarthill® ON LINE UPS

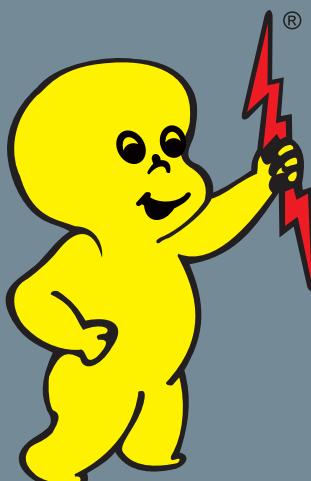
FEATURES

- DSP based design Pure Sine Wave.
- Ethernet based monitoring(Optional).
- Robust Design-20years Product Life.
- High Efficiency & high Reliability.
- User Friendly Display.
- Available from 7.5KVA to 25KVA.
- High Surge Capability (up to 300%) for starting Heavy Load.
- Tested as per IEC 61683 & IEC 60068-2 (1,2,14,30) standards.
- AC & DC Parameter Configurable from LCD.



TRUE ONLINE UPS
Isolation Based 3 Phase in - 1 Phase out

Available in
7.5-25KVA



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TRUE ONLINE UPS Isolation Based (3 Phase in - 1 Phase out)

TECHNICAL SPECIFICATION

INPUT

Power Rating	5kVA	6kVA	7.5kVA	10kVA	15kVA	20kVA
DC Voltage	240V/360V					
Voltage Range	400 ± 20% Three Phase four wire					
Frequency	50Hz ± 10%					
Power Factor	>0.92					
Charge Topology	Buck					
Connection Type	Terminal Block					

GRID CHARGING

Switching Devices	IGBT
Switching Freq.	16KHz
No. Of Charger Controller	One
Charger Topology	Buck

OUTPUT

Voltage	220V/230V/240V±1% (Selectable from LCD)
Load Current Per Phase	17.4A 20.87A 26.08A 34.78A 52.17A 69.56A
Efficiency (AC-AC)	>90%@Full Load
Frequency	50Hz(Default)
Waveform	Pure Sine Wave
Transient Response	<8 (10%~90% Liner Load)
Voltage Harmonics	<3% Linear Load
Overload Capacity	100 to 110%-10min., 110 to 120%-2min.; 120 to 150%-30sec; 150 to 200%-2sec; 200 to 300%-1sec.; 300 to 400%-250msec; >400%-20-30msec.
Crest Factor	3:1
Voltage Regulation	±1%
Frequency Regulation	±0.05Hz
Connection Type	Terminal Block

AUDIBLE WARNING

Alarm	Battery Low, Battery High, Overload, Mains Present.
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DISPLAY

LED	#UPS ON #Mains Chg. #Overload #Output High/Low #Battery High/Low #Chg. Overheat # AC Input High/Low R,Y,B #Fault #Bypass (Optional)
LCD (20x4)	#Input Voltage & Freq. R,Y,B #Output Voltage, Freq. & Load% #Battery Voltage #Charging Current, #Working Status.

PROTECTIONS

Parameters	#Output Overvoltage/Undervoltage, #Overload, #Output Shortcircuit, #Battery Overvoltage/Undervoltage, Input Overvoltage /Undervoltage, Thermal
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COMMUNICATION & MANAGEMENT

Remote Monitoring	Ethernet(Optional)
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MISCELLANEOUS

Transfer Time	0msec
Extended Battery Chg.	Optional
Caster Wheels	Yes

ENVIRONMENTAL

Operating Environment	0-50°C
Operating Relative Humidity	(5%-95%) Non-Condensed
Storage Environment	0-75°C
Storage Relative Humidity	0-95%
Degree of Protection	IP20

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||Sarthill® ON LINE UPS

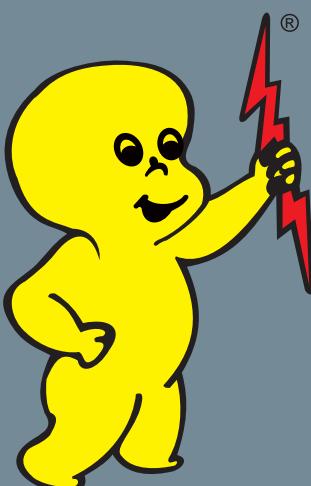
FEATURES

- DSP based design Pure Sine Wave
- Ethernet based monitoring(Optional)
- Thermal Protection
- Robust Design-20years Product Life
- Noiseless in Operation
- High Efficiency & high Reliability
- User Friendly Display.
- Available from 7.5KVA to 100KVA
- High Surge Capability (up to 300%) for starting Heavy Load
- Tested as per IEC 61683 & IEC 60068-2 (1,2,14,30) standards
- AC & DC Parameter Configurable from LCD



TRUE ONLINE UPS
Isolation Based 3 Phase in - 3 Phase out

Available in
7.5-100KVA



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TRUE ONLINE UPS Isolation Based (3 Phase in - 3 Phase out)

TECHNICAL SPECIFICATION

INPUT

Power Rating	7.5kVA	10kVA	15kVA	20kVA	25kVA	30kVA	40kVA	50kVA	60kVA
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DC Voltage	240V/360V
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Voltage Range	400 ± 20% Three Phase four wire
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Frequency	50Hz ± 10%
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Power Factor	>0.92
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Charge Topology	Buck
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Connection Type	Terminal Block
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GRID CHARGING

Switching Devices	IGBT
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Switching Freq.	16KHz
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No. Of Charger Controller	One
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Charger Topology	Buck
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OUTPUT

Voltage	380V/400V/415V±1% (3Phase -4Wire)
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Load Current Per Phase	8.7A	11.6A	17.4A	23.2A	29 A	34.8 A	46.30	58.0	70.00
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Efficiency (AC-AC)	>90%@Full Load
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Frequency	50Hz(Default)
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Waveform	Pure Sine Wave
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Transient Response	<8 (10%-90% Liner Load)
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Voltage Harmonics	<3% Linear Load
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Overload Capacity	100 to 110%-10min., 110 to 120%-2min.; 120 to 150%-30sec; 150 to 200%-2sec; 200 to 300%-1sec.; 300 to 400%-250msec; >400%-20-30msec.
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Crest Factor	3:1
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Voltage Regulation	±1%
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Frequency Regulation	±0.05Hz
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Connection Type	Terminal Block
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AUDIBLE WARNING

Alarm	Battery Low, Battery High, Overload, Mains Present.
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DISPLAY

LED	#UPS ON #Mains Chg. #Overload #Output High/Low #Battery High/Low #Chg. Overheat # AC Input High/Low R,Y,B #Fault #Bypass (Optional)
-----	---

LCD (20x4)	#Input Voltage & Freq. R,Y,B #Output Voltage, Freq. & Load% #Battery Voltage #Charging Current, #Working Status.
------------	--

PROTECTIONS

Parameters	#Output Overvoltage/Undervoltage, #Overload, #Output Shortcircuit, #Battery Overvoltage/Undervoltage, Input Overvoltage /Undervoltage
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COMMUNICATION & MANAGEMENT

Remote Monitoring	Ethernet(Optional)
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MISCELLANEOUS

Transfer Time	0msec
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Extended Battery Chg.	Optional
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Caster Wheels	Yes
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ENVIRONMENTAL

Operating Environment	0-50°C
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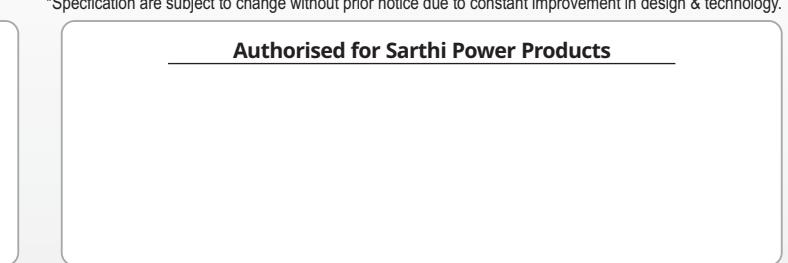
Operating Relative Humidity	(5%-95%) Non-Condensed
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Storage Environment	0-75°C
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Storage Relative Humidity	0-95%
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Degree of Protection	IP20
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*Specification are subject to change without prior notice due to constant improvement in design & technology.



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Servo Voltage Stabiliser



Air Cooled

Available in
3KVA-100KVA(3Ø)



Oil Cooled

Available in
25KVA -750KVA (3Ø)

Micro Controller based
also Available on Request



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SERVO VOLTAGE STABILISER (Oil / Air Cooled 3 Phase)

TECHNICAL SPECIFICATION

Specifications

Input Range (4 Wire Systems)	Regular 290-470 VAC	ECCO 340-470 VAC	WR 240-520 VAC
Output Volt	415 VAC for Three Phase (Adjustable & unbalance type)		
Capacity	3.0 KVA to 750 KVA (3Ø) (AirCooled / Oil Cooled)		
Regulation	± 1%		
Supply Frequency	47-53 Hz		
Efficiency	Better than 98%		
Wave From Distortion	Nil		
Effect of Load Power Factor	Nil		
Correction Rate	70 V/sec		
Type of Control	High torque AC Servo motor		
Ambient Temp.	0 to 45c. (Max.)		
Environment	Designed for indoor tropical use (Out Door is also Available on Request)		
Accessories @ Indications	Output On / Input On(R-Y-B)		
@ AC V-Meter	I/P : R-Y-B-RN-YN-BN (Digital)		
	O/P : R-Y-B-RN-YN-BN (Digital)		
@ Controls	Auto / Manual Selector Switch		
	I/P / O/P Selector Switch		
	INC/DCR Selector Switch	O/P Volt Adjustment Potentiometer (V. Set Pot)	
Protection	(1) O/P Over/Under Volt Trip (2) Overload & Short Circuit Through MCB at I/P		
	(3) Single Phasing Preventer (SPP)		
	(4) Phase Sequence Changer Trip (Optional) (5) EMI/RFI Filtration (Optional)		
	(6) Micro Controller Based Technology with LCD Display Controls (Optional)		



Physical Size (in mm)

	Air Cooled	Oil Cooled
Capacity	H. x W. x D.	Capacity H. x W. x D.
3KVA	690 x 290 x 470	30KVA 800 x 1160 x 600
15KVA	880 x 310 x 510	45KVA 915 x 1345 x 650
30 KVA	940 x 390 x 610	100KVA 965 x 1520 x 700
50 KVA	1120 x 420 x 780	200KVA 1200 x 1900 x 800
75 KVA	1300 x 590 x 1050	750KVA 1800 x 2250 x 1300

SERVO VOLTAGE STABILISER (Air / Oil Cooled Single Phase)

TECHNICAL SPECIFICATION

Specifications

Input Range	Regular 170 - 270 VAC / Wide Range 750 - 1800 x 2250 x 1300 VAC
Output Volt	230 ± 1% VAC
Efficency	>95%
Capacity	1KVA to 25 KVA
Correction Rate	35 Volt / Second
Protections	(1) Operation Theatres (2) CNC Machine (3) Production Plant (4) X-Ray Machine (5) Process - Control & Medical Equipments (6) Digital Voltage Controller
Application	with Output High - Low Cutoff / with MCB & Fuse Protect for Overload
Physical Size	Capacity H. x W. x D. (in mm)
	1KVA 245 x 160 x 405
	2 - 6KVA 260 x 200 x 470
	7.5 - 12.5 KVA 350 x 315 x 525
	15 KVA - 25 KVA 705 x 385 x 490



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CONSTANT VOLTAGE TRANSFORMER (CVT) (1Ø-3Ø)



Special Range for
3Ø CVT
(150VA-5KVA)

Customized
CVT & UIT
also Available

ULTRA ISOLATION TRANSFORMER (UIT) (1Ø-3Ø)



1Ø
(1KVA-25KVA)

3Ø
(3KVA-500KVA)



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CONSTANT VOLTAGE TRANSFORMER(CVT)

TECHNICAL SPECIFICATION

Specifications

Capacity	150 VA to 5 KVA
Input	160V - 280 VAC
Output	230 ± 1%
Freq.	50Hz
Rate of Correction	250 Volts / Second
Efficiency	85%(With Full Load)
Coupling Capacitance	Less than 0.005PF
Audible Noise	<50db
Optional	High / Low Voltage Cut off, Time Delay
Advantages of CVT	<ul style="list-style-type: none"> ◆ Maintenance - Free (No moving parts) ◆ Very Fast Correction Speed ◆ Zero Voltage Potential between output Natural & Ground ◆ Total Galvanic Isolation ◆ Protected against Overload / Short Circuit ◆ Rectifies Distorted Input Wave forms to Sinewave forms
Application	<ul style="list-style-type: none"> ◆ Personal Computer ◆ Weigh Bridge ◆ Biomedical Equipments ◆ EPABX, Fax Machines ◆ Wheel Alignment Machine ◆ Sensitive Micro-Processor based Electronic Equipments
Physical Size (MM)	Capacity H. x W. x D.
	150VA 170 x 210 x 315
	500VA 200 x 225 x 360
	1KVA 255 x 280 x 435
	2KVA 370 x 300 x 515

ULTRA ISOLATION TRANSFORMER (UIT) (1Ø-3Ø)

TECHNICAL SPECIFICATION

Specifications

Output Voltage	Input Voltage
Efficiency	>95%
Capacity	150 VA to 25 KVA (1Ø) / 3KVA to 500 KVA (3in-3 Out / 3in-1 Out)
Coupling Capacitance	0.005 to 0.009 PF
Feature & Protections	<ul style="list-style-type: none"> ◆ Isolation from the noisy power line ◆ Coupling Capacitance 0.005 to 0.009 PF ◆ Break Down Strength : 2500 Volts AC for 2 Minutes ◆ Total Galvanic Isolation ◆ Neutral Isolated, So Elimination from Earthing Problem
Application	<ul style="list-style-type: none"> ◆ Communication & Process Control Equipments ◆ CNC Machine ◆ Medical Equipments
Physical Size (MM)	Capacity H. x W. x D.
	1KVA (1Ø) 200 x 170 x 260
	5KVA (1Ø) 225 x 230 x 350
	10KVA (1Ø) 500 x 550 x 570

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DIGITAL POWER CONDITIONER



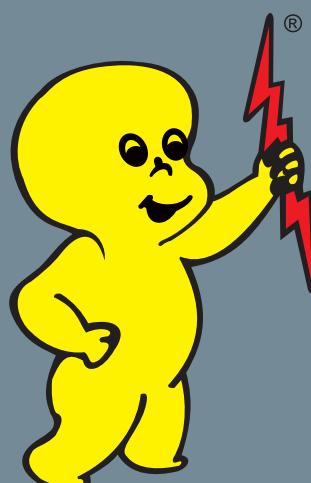
AUTOMATIC VOLTAGE CORRECTOR



POWER STRIP



MANUAL VOLTAGE CORRECTOR



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DIGITAL POWER CONDITIONER

TECHNICAL SPECIFICATION

Specifications

Capacity	500 VA to 5 KVA
Input	170V - 270 / 150 -290 VAC
Output	230 ± 5% V
Rate of Correction	450 Volts / Second
Harmonic distortion	Nil
Efficiency	>98%
Optional	High / Low Voltage Cut off, Time Delay
Advantages Over CVT	<ul style="list-style-type: none"> ◆ Close - loop principle ◆ No Magnetic Flux Leakage ◆ Light Weight & Compact ◆ No Wave from Distortion ◆ No Heating / Humming noise ◆ Solid - State Control ◆ Built-in protection against spikes, surges, overload, over voltage
Application	<ul style="list-style-type: none"> ◆ Personal Computer ◆ EPABX, KTS Systems ◆ Machines ◆ Photocopiers ◆ Electronic Typewriters ◆ Weighing Scales ◆ Process - Control & Analytical Equipment
Physical Size (MM)	Capacity H x W. x D.
	500VA 200 x 250 x 325
	1000VA 260 x 305 x 495
	5000VA 700 x 340 x 475

AUTOMATIC VOLTAGE CORRECTOR

TECHNICAL SPECIFICATION

Specifications

Models	Automatic / Manual
Capacity	0.25 KVA to 10.00 KVA
Input	170-270 / 140-300 / 100-300
Output	230 ± 9% VAC
Efficiency	>95%
Optional	High / Low Cut Out, Time Delay
Physical Size (MM)	Capacity H. x W. x D.
	1KVA(DR) 140 x 250 x 190
	4KVA (DR) 195 x 295 x 100
	4KVA (S/P) 165 x 235 x 315
	5KVA (S/P) 205 x 315 x 345

POWER STRIP

TECHNICAL SPECIFICATION

Specifications

Capacity	5 Amp
Outlets	Five (3 Socket - 5AMP Plug + 1 Socket - 15 AMP Plug +1 Socket 2 Pin Plug)
Indication	Mains Fault Detector

Long Life
Due & Suck
Based

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II Sarthill®

Line-Interactive UPS Systems



Special UPS
For Elevator &
Weighing Systems

Available in
0.5-2.5kVA

Digital Inverter (Home UPS)

MOSFET Based Latest
PWM Technology



Special Models
Available For
Computer



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Line-Interactive UPS Systems

TECHNICAL SPECIFICATION

Specifications						
Capacity	0.5 KVA to 2.5 KVA					
Input	165V - 280 VAC					
Freq.	50Hz ± 3Hz					
Output	230 ± 6%					
Efficiency	>95%					
Inverter Mode Batt.	12 / 24 / 36 VDC					
Output	230 VAC ± 2% Quasi Square Wave					
Transfer Time	< 3 msec.					
Protection	Over Load / Low Battery / Audio Alaram / Short Circuit					
Salient Features	Automatic no load cut off saves power & undue drain of battery, Cold start facility					
Back Up Time	15 Min. to 6 hr.					
Application	<ul style="list-style-type: none"> ◆ Personal Computer ◆ Lan System ◆ Telecom Eqpt. ◆ Elevator ◆ Office Automation ◆ Process Instruments ◆ Medical Equipments ◆ Weighing Systems 					
Physical Size (MM)	Capacity	H.	x	W.	x	D.
	500VA(IB)	175	x	105	x	345
	1KVA (IB)	225	x	125	x	395
	1KVA(Ext)	245	x	160	x	405
	2KVA(Ext)	310	x	215	x	430
	2KVA(IB)	515	x	215	x	445

Digital Inverter(Home UPS)

TECHNICAL SPECIFICATION

Specifications						
Capacity	150 VA to 10 KVA					
Input	165V - 280 VAC					
DC Voltage	12 / 24 / 36 / 180 V DC					
Output	230 ± 5%					
Efficiency	>85%					
Salient Features	<ul style="list-style-type: none"> ◆ Fully Automatic ◆ Auto Reset ◆ No Pollution ◆ Noise Free ◆ Electronic overload protection to avoid total failure ◆ Battery dip discharge - overcharge protection to give longer battery life ◆ Stable Frequency : AN IC - controlled oscillator keeps the inverter's o/p frequency - steady at 50 Hz 					
Protection						
Application	<ul style="list-style-type: none"> ◆ EPABX Systems ◆ Show Rooms ◆ Restaurant ◆ Intercom ◆ Hospital ◆ Hotel ◆ Office ◆ VCR ◆ Audio Systems 					
Physical Size (MM)	Capacity	H.	x	W.	x	D.
	500VA	120	x	260	x	275
	1KVA	135	x	275	x	300
	2KVA	160	x	325	x	350
	5KVA	485	x	290	x	470
	10KVA	565	x	365	x	545



*Specification are subject to change without prior notice due to constant improvement in design & technology.



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