

The Most Reliable
INDIAN UPS with
**INTERNATIONAL
STANDARD** ▶▶▶



 **MARUTHI**

Intelli-i Series

Double conversion On Line UPS



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Maruthi Power, the renowned leader in power electronics with more than 15 years of experience in the design and manufacture of UPS systems and Inverters, offers the state-of-the-art DSP based **Maruthi Intelli-i** series On Line UPS systems.

Today business application are based on technology solution and office Automation, the need for providing quality power with high reliability becomes extremely vital. Most often the failure of electrical and electronic equipment is attributed to bad quality of power.

Apart from providing backup on power failure a UPS should also act as a good power conditioner. Maruthi Intelli-i is the double conversion Pure sine wave True On Line UPS system using the world best DSP (Digital Signal Processing) technology with active power factor correction and built in isolation. It has been designed to support critical applications by delivering high quality power with unmatched reliability.

ACTIVE POWER FACTOR CORRECTION – 30% POWER SAVING

Active Input Power factor correction incorporated in the Maruthi range of UPS systems using advanced electronic circuitry integrating the high performance IGBT prevents the overrating of electrical wires, reduces reflected harmonics back to the source providing better utility of power. With a PF of 0.99 the UPS helps in power saving upto 30%.

INTELLIGENT BATTERY MANAGEMENT (IBM)

Intelligent Battery Charger prolongs the life of the Battery and improves the battery performance. Low ripple output & faster dynamic response improves the stability of the charger & enables the UPS to handle 100% surge load without the battery support.

GALVANIC ISOLATION

The isolation output enhances the attenuation of common mode noise by increasing the impedance between the input & output of the UPS. The UPS output could be locally grounded at the load, reducing the noise voltage produced across the common mode impedance by the circulation of noise currents among the critical load equipment. High energy transient, which are clamped at the ac input, are also attenuated and prevented from propagating to the output. The output is totally protected from all the neutral harmonics. Provides protection of loads against lightning.

APPLICATIONS

- Internet Servers, VSAT Communication Networks & switching equipment, Process Control, Telecommunication, Life saving medical applications and such other application.
- Exclusive design for Motor loads like Lifts, Conveyors, Textile Industry Machineries and Printing equipments are also available.

SALIENT FEATURES

- DSP / Microprocessor controlled technology.
- Active power factor correction (0.99).
- Intelligent Battery charging management (IBM).
- User friendly LCD display.
- Built-in Galvanic Isolation.
- Compliance to International Standard.
- Protection against abnormal input power, Over charge, Deep discharge, Over Load, Short Circuit, etc.

ADVANTAGE MARUTHI

- 24 x 7 world class tele-support,
- 15+ years of experience in Power Electronics.
- Onsite comprehensive warranty.
- Free Preventive maintenance at regular intervals.



TECHNICAL SPECIFICATION

Capacity	1 - 3KVA	5 - 10KVA	10 - 30KVA	30 - 60KVA
	1 Φ in - 1 Φ out		3 Φ in -1 Φ out	3 Φ in -3 Φ out
Technology	Double conversion True On Line UPS Topology. Input power factor corrected, DSP / Microprocessor controlled UPS, using IGBT technology, with complete isolation between mains to output.			
Operating Frequency	Switching frequency, greater than 20KHz to ensure Purity of Sine wave			
Input Voltage	140VAC - 280VAC (single Φ)		300VAC - 485VAC (Three Φ)	
Input Frequency	45 to 60Hz			
Input Power Factor	0.99		0.95	
DC Voltage	36/48/96 VDC	120/192 VDC	192/240/360 VDC	360/384 VDC
Output Voltage	220VAC (single phase) \pm 1.0%		400VAC (Three phase) \pm 1.0%	
Output Frequency	50Hz \pm 1.0%			
Output Wave form	High Quality Pure Sine wave output			
Distortion	Total Harmonic Distortion < 2% for linear load and < 5% for non-linear load			
Crest Factor	Greater than 4 : 1			
Overload Rating	100% continues, 125% for 5mts.,150% for 30 seconds			
Overall Efficiency	Better than 92%			
Genset Compatibility	UPS system is compatible to Genset			
Protections	Output Over Voltage Overload - Short Circuit - Battery Over charge - Battery Deep discharge			
Cooling	Forced Air-cooling to protect electronic & other components from overheating			
Indications	Mains / Charger ON - Inverter ON - System Overload - Battery Under Voltage - Output Under / Over Voltage			
Alarms	Mains fail - Battery Low warning			
Low Noise	Less than or Equal to 45db (A) Standard at 1.0 mtr			
Interface	Auto shutdown software / SNMP for remote management (optional)			
Bypass	Manual or Static bypass (optional)			



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UPS | PURE SINE WAVE INVERTER | BATTERY
Goes on, When the Power is Gone