



Year of Excellence

ISO 9001-2015

Rated as the BEST In-House R&D among Indian UPS manufacturers by SD.



## What sets Arvi apart from the rest? Let's take a closer look.

### 1. Truly Indian with 75-80% local content/ Indian components



At a time when self-reliance is driving India's industrial backbone, Arvi stands out with a **75–80% locally designed and manufactured product line**. This indigenous approach not only ensures robust quality but also strengthens India's vision of "Make in India."

Many **so called manufacturers** import UPS as semi knocked down kits and reassemble it in India under Make in India initiative; but the UPS design and its sub assembly are not Indian. They are designed for general requirement and are mass produced and sold as "box selling" and hence the life of these UPS are typically 5-6years in the harsh environment of India.

"Every Arvi UPS is carefully engineered and subjected to 12 rigorous stages of quality inspection and heatrun; **ensures minimum 10years of product life** - justifies the return on your high investment and also lesser cost per year."



- Indigenous design.
- Easy to service single DSP card.
- Rugged, long-life design.
- Prompt & ex-stock delivery.
- Power Factor Corrected, Parallel redundancy, regenerative load handling
- 10years of unconditional spares support.
- SNMP, MODBUS communication interface

Esthetically designed - export compliant

Exported to Dubai, Nigeria, Philippines, Malaysia and Nepal

### 2. We are different in our objective and approach

#### Quality of power matters

We believe that the **quality of power matters significantly** and the primary objective of opting for an UPS should be to protect the high investment made on the equipment and the infrastructure apart from providing backup.

The non-linear loads pollute the quality of UPS power especially during peak-power operation; and this polluted power significantly impacts the life of the connected equipment.

Hence unlike the conventional UPS manufacturers, Arvi's approach is to ensure premium-grade power **even during worst loading condition** - which ensures 100% uptime and optimum product life of the connected equipment; justifying the huge investment on the same.

## PRINCIPLES THAT WE LIVE BY

**We are passionate about the opportunity of adding value to our customers needs.**



We are a huge beneficiary of the society and we would like to give back to the society by using our expertise of 27years, in-house R&D and indigenous manufacturing capability, add value to our customer's requirements by providing need-based, innovative, reliable, power-conditioning products with high quality service support.

We are also determined to be passionate about what we do and how it influences our customer experience - we shall conduct ourselves with highest order of ethical values and commitment.

### 3. State-of-art manufacturing facility with Strong end to end in-house R&D team

• **Manufacturer and exporter of industrial grade UPS for OEMs since 1998.**



• **Awarded as the best in-house R&D among Indian UPS manufacturers by SoftDisk**

**27** years of industry expertise | **1,26,000+** successful installations

▪	"We understand that the cost of downtime and premature failure of the connected equipment is very costly as the investment done on the same is very high. Arvi UPS primarily serves as <b>a virtual insurance to your high cost investment</b> serving as a high impedance power-conditioning power source apart from being a UPS".
▪	"Based on the load study conducted by our engineering team we have found that the quality of the UPS power determines the uninterrupted process continuity and the product life of the connected equipment.  Conventional power-conditioning UPS provides clean power during normal conditions but during highly non-linear, peak power processing the quality of the UPS power is momentarily distorted, this might not affect the equipment performance significantly in the short run, but does contribute to the abrupt /premature failure of the power supply of the equipment due to degradation over a period of time".
▪	"We understand that eventhough the UPS continues to function and supply power without interruption, the connected equipment could fail due to failure of its power supply, any electrical / electronic component in the equipment - and one of the primary reason for such failures is quality of power".
▪	"Equipment availability /uninterrupted functioning is directly linked to the quality of the UPS power. Hence our primary focus is on providing UPS that supplies premium grade quality power to the connected load even during the most extreme situations (during non-linear, repetitive, peak power processing - which tends to pollute the UPS power quality; if not properly compensated by the UPS)."

Our motto

- Using our 27 years of data and industry expertise, we are committed to proactively develop technological innovations that protect / ensure **maximum return on investment your investments in capital equipment and infrastructure**.
- Ensure lesser cost of ownership per year by providing premium grade quality power even during worst load conditionings.
- Extending the number of years before the first breakdown (Maximise availability).
- Optimise the product life.

How does Arvi UPS ensure zero downtime of your equipment and process

- Arvi UPS ensure zero downtime of your equipment and process by pre-trip alerts - Empowers the user / maintenance technicians with proactive alerts to enhance UPS uptime.
- Pre-trip alert for overtemperature on transformer and chokes.
  - Pre-trip alert for overtemperature inside the UPS due to fan failure or high ambient temperature
  - Protection for output AC capacitor failure
  - Pre-trip alert for high crest loads (non-linear loads beyond the rated UPS capacity)
  - Pre-trip alert for overload (The UPS handles the load surge and overload for few minutes before tripping)
  - UPS is built through-out using **fire resistant material for safety and reliability**.

We ensure that your loads are comprehensively protected against any eventuality	
Output Under Voltage	Protects the load and its components from premature failure.
Output Over Voltage	
Output Single Phase prevention	Protects the connected three phase loads & its components from premature failure.
Output short circuit with pulse by pulse current limit up to 200μ secs. Protects 300% for 15msecs, 500% for 5msec & 1000% for 1.5msec of the rated current	Protects against false tripping & complete shutdown in case of surge power drawn by the load (non linear loads)
Neutral drift	Galvanic isolation provides complete isolation between output neutral and Input & the the output is fully protected against neutral drifts, voltage avalanches like lighting & input harmonics commonly found in the input side.
Neutral failure	
Lightning	
EMI & Harmonics in the input neutral	
High voltage transient protection & Electrostatic discharge protection as per IEC 62040-2	

Option I - PFC-XR303

**PFC-XR303** - This is a power-conditioning topology Online UPS - specially designed for laser cutting machines.

VFI power-conditioning topology with galvanic isolation for comprehensive power protection  
The downtime in a process is not only due to failure of power but also due to breakdown of any machines in the production lines - mainly the failure of electrical or electronic parts in the machine).  
Power experts attribute this failure to the poor quality of power.  
(Frequency variations, harmonics in the supply, neutral drifts, poor quality earthing etc).

- Galvanic isolation at the output for comprehensive power protection
- Generator compatible with >0.95 input Power Factor.
- Long-life, designed for Harsh electrical environment.
- Fully DSP Controlled
- MPWM, IGBT based inverter (Operated in Zero current switching, interleaved topology to improve reliability ; also reduces switching noise and improves efficiency.)

Sl No				
1	Description	Unit price	Qty	Value
1a				
1b				
1c	Cost of battery testing We conduct inward QC of the batteries received from the manufacturer; the batteries are subjected to <b>C1 discharge test</b> - charged again and subjected to <b>C10 discharge test</b> - charged again before delivery. The whole process takes 3days and significant amount of man power. This is mandatory to ensure the quality of batteries that are supplied to you as we frequently find batteries not complying as per the required quality standards from the batches of batteries received from the manufacturer.			
1d	Cost of Interconnecting Cable			
1e	Battery Installation charges			
1f	MS, Powder coated, battery stand to accommodate the above batteries (With wooden, rubber insulation, interconnecting cable & connectors).			

Option II - PFC-XR303HS

**Premium model - custom-design by Arvi;**

designed by a team of Arvi's in-house R&D engineers, after studying various models of laser cutting machines.

Sl No	Description	Unit price	Qty	Value
2				

Cost of batteries and batteries stand **remains same** as mentioned in **1b to 1f**.

TERMS & CONDITIONS	
Price	For Bangalore.
GST	18% extra on UPS, batteries and battery stand.
Delivery	
Payment	
FAT	Factory Acceptance Test (FAT) - We can arrange for a in person / video online factory acceptance test of the UPS before despatch; we will mail you the test report of the UPS and you could reverify the parameters online via video call or in person in our factory.
Warranty	
Validity	30 days
Updates	You will be updated regularly about the status of progress in production (Image / video); as the product moves from one section to another, we will send you updates.

Please visit us at [www.arviups.com](http://www.arviups.com)

We hope that our offer is in line with your requirements, kindly feel free to contact us for any clarification.

Waiting for your valuable order and looking forward for an opportunity to serve you.

Thanking you and assuring you of our best services at all times,

warm regards,

Santosh Risbood - General Manager- OEM Business  
 For Arvi Systems & Controls Pvt Ltd

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