

## About Energy Intelligence

India is at a major inflection point of **electric mobility** and **energy storage**. Next five years will be pivotal in this transformation. Unlike rest of the world, India's transition will be different and at times, bumpy - along almost all dimensions. Which applications that take off first, the type of vehicles that grow the fastest, the unique ecosystem needs we have will be very different from the countries in the leading edge of the technology. **We intend to facilitate this transition** wherever we can to help **grow indigenous capability** as well as address many needs that are unique to India. Together we have over 100-person year experience in various industries building, integrating and supporting world class software and hardware solutions and have multiple patents.

## Our Latest Product

Over last few months as the world went indoors and being homebound became a necessity, we designed and built a **router mini UPS** especially for **Work From Home** community. It is far superior technically then comparable products and has **patent pending technologies**. We use the **best electric vehicle (EV) grade batteries**, and it has **unique charging algorithm** for long life of device and **enhanced safety features** for Indian climate and grid. It has the most rugged design amongst all products in this space.

## Comparison with some popular makes and models

Product Comparison				
Product A	Product B	Feature	EnergyIntelligence.in	Why You should Care?
3.75	3.75	<b>Backup time</b>	4.75 - 6.00 hrs	Survive longer power-cuts. 30%+
22	25	<b>Battery Capacity</b>	27/32 WH	Survive longer power-cuts
Consumer	Consumer	<b>Battery Grade</b>	Electric Vehicle Grade	Longer Battery Life
2	2	<b>Max. Current</b>	2.5 A	Works for higher power routers. 25%+
12	12	<b>Voltage</b>	12/9 V <i>(Custom Accessory for 9V)</i>	Protect your investment Same device can be used for 12 or 9V
1	2	<b>Warranty</b>	3 Yrs	Peace of mind
2	2	<b>Min. Adapter Capacity</b>	1.2 A	Stable operation at low battery charge
-	-	<b>Deep Discharge Protection</b>	Yes	Longer Life, More Cycles
No	No	<b>Dual Device Setup</b>	1 UPS runs 2 devices <i>(with custom accessory)</i>	Stretch your investment <i>subject to total current of 2.5A</i>
-	-	<b>Protection</b>	Reverse Polarity, Over-current, Thermal cutoff	Reduced operational risk No risk during transport/storage
Sealed	Sealed	<b>Thermal Management</b>	Arched slot for airflow	Increased battery life
Normal CC/CV	Normal CC/CV	<b>Charge &amp; Discharge</b>	Application specific proprietary algorithm	Increased battery life
China	-	<b>Origin</b>	Designed & Built in India	#atmanirbhar
-	-	<b>Backup On/Off</b>	Yes	Storage life & Transport Safety
not specified	not specified	<b>Operating Temperature</b>	0 - 60 °C	Temp. range for Indian Climate



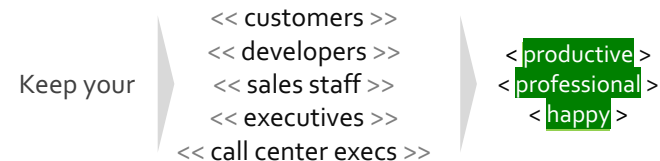
You need a border-less office

\* **Work From Home** is here to stay



On average **57%** of households have up to **4 hrs** of power cuts per day

but



## The UPS with a difference

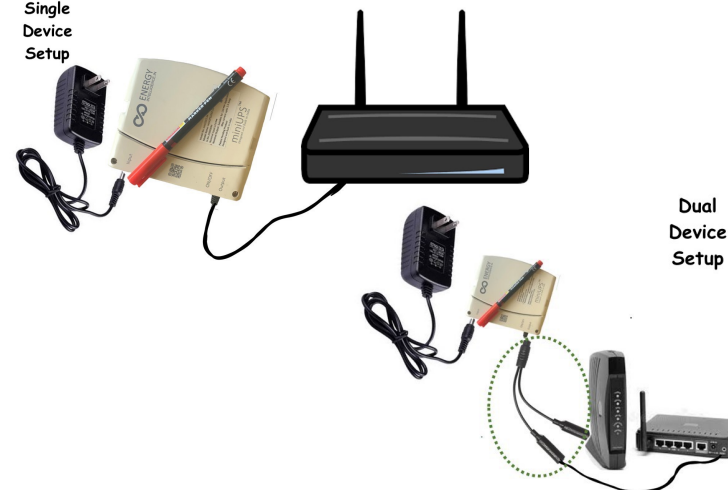
UPS for Wi-Fi - designed and built in India for India



- o EV grade Li-Ion battery (no liquid/gels)
  - o no battery replacement inconvenience every year
- o 4-5 hours capacity
- o 3 yrs. Warranty
  - o Expected cell life of 5 yrs.
- o Patent Pending
  - o Thermal Management
  - o Short circuit & reverse polarity protection
  - o Charging algorithm
  - o Deep discharge protection
- o Power up to 2 devices (12V, 9V)
  - o Wi-Fi Router, Modem, Security Camera, BioMetric
- o Bump-less transfer

## Available in 12V/9V, Single/Dual Device

Single Device Setup



Dual Device Setup



## INPUT SPECIFICATIONS

Input Voltage (nominal)	12V DC
Input Current	0.1 - 2.5 A @12V
Efficiency	>95% (Roundtrip)
Reverse Polarity Protection	Yes
Cell Under Voltage Protection	Dual Level
Cell Overvoltage Protection	Dual Level



## OUTPUT SPECIFICATIONS

Output Voltage (nominal)	12V/ 9V DC
Continuous Discharge Current	2.5 A
Peak Discharge Current	3.5 A for 10 sec
Storage Capacity	27 WH
Over Current Protection	S/C, $T_{trip} = 0.5$ msec Triple Stage $> 5$ A, $T_{trip} = 20$ msec $\geq 3$ A, $T_{trip} = 17$ sec
Deep Discharge Protection	Yes
Thermal Protection	Yes
Surge Capability	Zero lag
Surge Suppression	Transient surge suppressed up to 1.5 KW

### Features:

- **Patent Pending** with specific charging profile for UPS usage
- Superior quality **3C Electric Vehicle (EV)** Grade Cells
- Each cell pack is tested against rigorous Energy Intelligence standards
- Specifically designed **thermal equilibrium arch**
- Handle 30% higher than nominal voltage in input w/o damage
- Each cell can go up to 7A and withstand at max 8A of current
  - Electric Vehicle Grade. High Factor of Safety
- Conformal coating on PCB for **longer life, corrosion resistance & accidental short circuit prevention**
- **Intelligent Charging and Discharging** for UPS specific application
- **Thermal Management** for Tropical Environment
- **High Impact Resistant** material and internals
  - Hard Surface: 4 ft. drop tested
  - Soft Surface: 10 ft. drop tested
- Expected Cell life of **5 Years**
- **3 Year warranty** (2 year + 1 year extended)

## Detailed Comparison

Features	miniUPS	Product A	Product B	Product C
Product Patent Pending	✓	✗	✗	✗
EV Grade Cells	✓	✗	✗	✗
Conformal Coating on PCB for longer life & Corrosion resistance	✓	✗	✗	✗
Transient surge suppression for Indian grid & DG quality power supply	✓ (1.5KW)	✗	✗	✗
Minimum Adaptor current capacity required for stable operation (Low value avoids hunting)	1.2 A	2A	2A	2.5 A
Wall Mounting Option	✓	✓	✗	✓
Reverse Voltage Protection	✓	✓	✓	✓
Can accommodate up to 30% higher input voltage	✓	✗	✗	✗
Continuous Discharge Current	2.5 A	2 A	2 A	2 A
Storage Capacity	27 Wh (32Wh available)	20 Wh	19 Wh	25 Wh
Application specific charging/discharging	✓	✗	✗	✗
Zero Lag Switching	✓	✓	✓	✓
Overcurrent Protection	✓	✓	✓	✓
Triple Stage Overcurrent Protection (cells & connected device)	✓	✗	✗	✗
Thermal Protection	✓	✗	✗	✗
Thermal Management for Tropical climate	✓	✗	✗	✗
Deep-discharge Protection	✓	✗	✗	✗
Cell Undervoltage Protection	✓	✓	✓	✓
Cell Overvoltage Protection	✓	✓	✓	✓
High Impact Resistant	✓	✗	✗	✗
Warranty	3 Year	1 Year	1 Year	6 months
Expected Cell Life	5 Year	-	-	-
Dual device Setup (Modem and router)	✓	✗	✗	✗
12V/9V set up	✓	✗	✗	✗

## Other Specifications

Operating Temp. 0 – 60 °C

Operating Humidity Upto 95% RH

Storage Humidity Upto 95% RH

Cooling Specially designed thermal arch

Drop Test High Impact Resistance

**Purchase**

<http://energyintelligence.in>

**Contact**

[b2b@energyintelligence.in](mailto:b2b@energyintelligence.in)

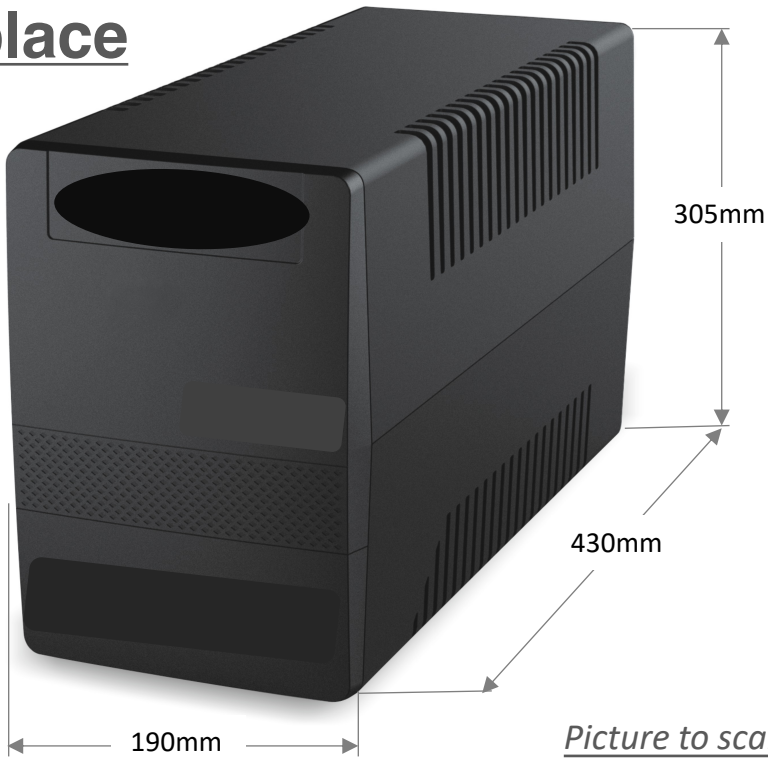
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Prices starting from ₹1799.00 Retail.

For volume orders and budgetary quote [b2b@energyintelligence.in](mailto:b2b@energyintelligence.in)

**Replace**



**With**



**And**  
Get rid of Battery  
Change every 12-18  
months

Great for **employee IT package\***, employee **gift**, customer **gift**

\* Employees with laptops at home can use this device for uninterrupted work and servicing customers