

DESIGNED FOR CRITICAL POWER CONDITIONS



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Why ZENER?

With over 25 years of experience, we at ZENER have built a zener reputation of offering unparalleled technological expertise. Today, we have evolved as one of the leading providers of power

conditioning and power protection solutions.

At ZENER, we value you and your specific business needs. This is the reason we aim to provide not just products but **comprehensive solutions** that best suit your specific requirement. Abiding by our brand mission that encompasses values, reliability and technology; we provide bespoke, state-of-the-art, cost-effective and reliable solutions for your unique business needs.

With a large installed base across the country, a strong in-house R&D team and stringent **process control** we ensure highly reliable and quality products that are sure to exceed your expectation. A penchant for **exceptional quality** and customer satisfaction is embedded in our infrastructure and is the reason for our success.





BMS compatible Interface.

Remote monitoring within the factory premises (100 mts) wireless transmission without any **GSM connectivity.**

Remote monitoring of UPS from the comfort of your home/remote location using GSM.





Increasingly sophisticated IT equipment and automated industrial systems demand continuous and automated operations. **Continuous power** therefore is not only vital but extremely critical. Any power irregularity or disruption, however minor, has serious consequences. Uninterruptible Power Supply or UPS Systems are the ultimate solution to power problems providing both uninterrupted

power backup and power conditioning.

The ZCN range of UPS acts as an interface between the mains and sensitive applications to supply the load with continuous, high quality electrical power, free from all disturbances regardless of the condition of the mains.

uzch UPS Systems are typically used in data centers, IT & ITES industry and automated industrial systems where an unexpected power disruption could cause serious business disruption, data loss and injuries. They have been specially designed to protect sophisticated IT equipment, medical equipment, computers, telecommunication equipment and other electrical equipment.

TECHNICAL SPECIFICATION

Rating: 1ph-1ph

- ► Capacity: 1 10KVA
- DC Bus: 48V / 72V / 96V / 120V / 192V

Input

- ▶ Mains Voltage: 230VAC, 1Ph
- ▶ Mains Range: 170V 270V
- ▶ Mains Frequency: 50Hz ± 10%

Rating: 3ph-1ph

- Capacity: 7.5 40KVA
- DC Bus: 192V / 240V / 360V

Input

- Mains Voltage: 415VAC, 3Ph & N
- Mains Range: 330V 470V
- ▶ Mains Frequency: 50Hz ± 10%

Rating: 3ph-3ph

- ► Capacity: 7.5 120KVA
- DC Bus: 192V / 240V / 360V

Input

- Mains Voltage: 415VAC, 3Ph & N
- Mains Range: 330V 470V
- ▶ Mains Frequency: 50Hz ± 10%

Output/Inverter

- Technology: High Frequency PWM
- Nominal Output Voltage: 230VAC 1Ph & 400VAC - 3Ph.
- ▶ Regulation: ±1%
- Waveform: Sinusoidal
- ► Frequency: 50Hz ± 0.25Hz
- Crest Factor: 3:1
- Over Load Capacity: 125% 1 min & 150% - 10 Secs
- Power Factor: 0.8 lag to unity
- Power Device: IGBT
- Transient Response: Output remains within ± 5% & recover to normal within 20ms
- Static Switch: Optional
- Super Bypass Switch: Available

Battery

- ► Charger Type: CC/CV
- Charger Current limit: Adjustable, normally set at 10% of Ah capacity

Protections

- ▶ Input: MCBs at Input & Output, MOVs, Snubber Networks, Fastblow Semi conductor Fuse and Soft start, Single Phase Protection
- Inverter Over Voltage / Under Voltage: 255VAC / 185V for 1Ph & 440VAC / 380V for 3Ph Output

- General Protections: Semiconductor Fuse, MCB, EMI Filters, Over Temperature, Mains High Voltage & Short Circuit
- ▶ Low Battery Trip: Yes
- ▶ Enclosure Protection: IP 20

General

- ▶ Efficiency; >90% for 1Ph Output & >92% for 3Ph Output.
- Isolation: Online UPS with Galvanic Isolation for comprehensive power protection
- LED Indications: Mains ON, Charger ON, Inverter ON, Battery Low, Over Load, Charger Trip, Inverter Trip, Over Temp, On Bypass
- LCD Display: Mains Voltage, Output Voltage, Load Current, Battery Voltage, Output Frequency, Temperature
- ▶ Audible Alarms: Input Low / Fail, Over Load, Battery Low, Over Temp, Inverter Trip

Cooling: Forced Air

Environment

- ► Ambient Temperature: 0 45°C
- Noise Level: <60 db @ 1.5 meter</p>
- ▶ Relative Humidity: 0 90% Non condensing
- ▶ Mobility: Castor Wheels

Additional Features for

uZen HSC 303

- ► Capacity: 10 200KVA
- Voltage stability under highly dynamic load condition
- ► Frequency stability at 50Hz
- Crest Factor 4:1
 - Programmable power consumption limit



Information Technology / ITES: Pure uninterrupted power is one of the most important components of any successful company in IT or the IT enabled services sector. So for over a decade, industry leaders have relied on power solutions from Zener to bring their downtime to zero.

Cypress Semiconductors, Sasken, Cisco, Mphasis, Symphony, Technicolor, Baxter, Oracle, Valtech, Microland, Lenovo...

Research Institutes: It is impossible for institutions in research to function efficiently with unreliable power. Most of the sensitive testing equipment need continuous power to compute and Zener is the perfect partner to fulfil this role of the most reliable source for pure uninterrupted power.

JNC, IISc, CNCR, Raman Research Institute, NCBS...





Engineering: When you are in a mission-critical industry like process engineering, it becomes imperative to have clean power that you can depend on. For over a decade now, industries in the engineering & allied services have deployed power solutions from Zener to derive pure power unceasingly.

Zenith Precision, Kaizan, Saint Gobain, Apotex, Makino Asia, Scania...

Healthcare: Uninterrupted power becomes even more critical in the healthcare sector for it may be a question of life or death. Solutions from Zener harness the power of advanced technology to deliver power you can trust with your life.

HCG, Narayana Hrudalaya, Nimhans, Mallya, RK, Kidwai, Apollo...

uZen HSC 303

Designed for MRI & CT Scanners



Also available:

SOCOMEC

Socomec UPS up to 5400KVA and Solar solutions • Zen Voltage Stabilizers and Isolation Transformers



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