PREMIUM QUALITY POWER

# CEAC 303

## Advanced Active Power Online UPS

**10KVA - 400KVA**

GREEN POWER INITIATIVE

**Your trusted partner for innovative power solutions and reliable services.**

www.creatlineengineering.com

5YRS+ experience

1,000+ clients

HARSH ENVIRONMENT DESIGN

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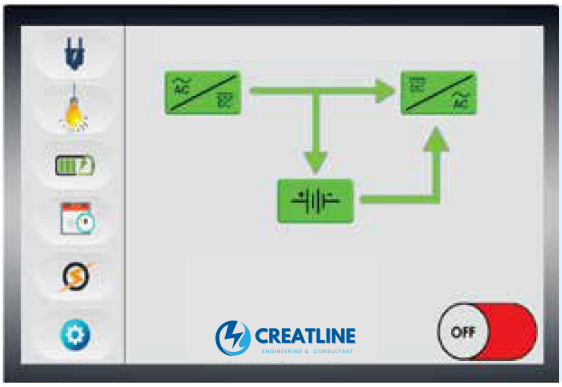
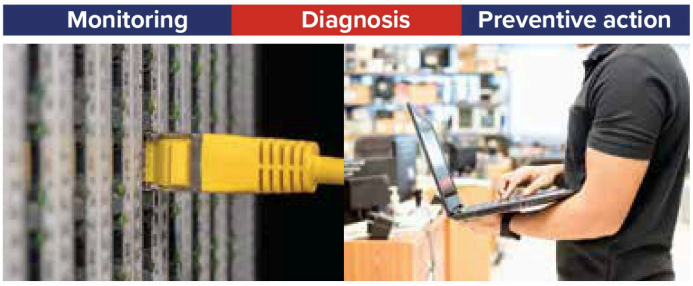
## TFT, touch screen, color display




**Graphical display of UPS status, load percentage and battery levels**

- Input voltage
- Output voltage
- Battery voltage
- Output power in KVA
- Output power in KW
- Output PF
- Output frequency
- Load percentage
- Over-temperature warning

## Predictive self analysis




The uptime is significantly enhanced using the intelligent DSP based Predictive Self Analysis built-in in the UPS. Using 16 sensors, the UPS periodically carries-out Self Analysis of various parameters and inititaes alarm for preventive and corrective action well in advance and facilitaes high uptime of machines and process.

**GSM based SMS pre-trip alert for initiating necessary preventive action.**

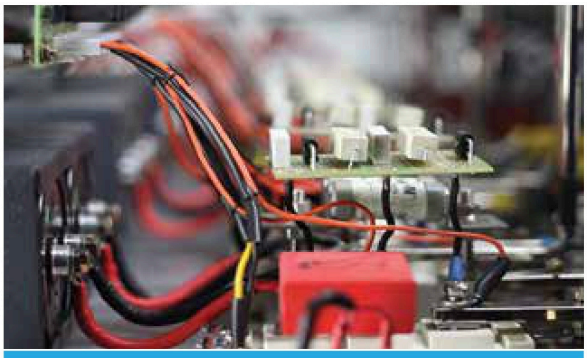
# SNMP-simple network monitoring protocol

## Remote ups monitoring software interface

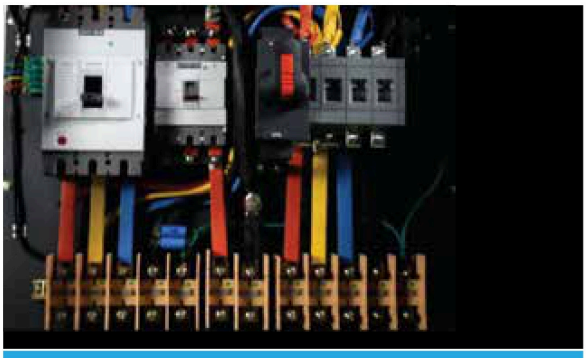
Monitor the UPS mains input voltage, output voltage, battery voltage, load percentage etc from a remote location.

SNMP feature facilitaes the user to carry-out preventive action remotely without physically reaching the UPS. Pre-trip alarm pops on the monitoring screen prompting the user/system admin/maintenance engineer to initiate preventive action. Without the SNMP feature, the pre-trip alarms are often unnoticed as the UPS is located away from the users and can cause ungraceful shutdown of machines/servers/process.

## 100% Indigenous design



IGBT based PFC rectifier



Industrial Grade
Designed for Harsh Environment

### 100% Indigenous Factory - With In-House R&D.

- Office, hospitals, educational and financial institutes
- Analytical and research labs
- Data centres and IT servers
- Digital and offset printing
- Environmental chamber

## Uninterupted Premium Quality Power using Power-Conditioning topology

The factors contributing to the pre-mature failure of electrical gadgets and eventually the system failure is not limited only to voltage fluctuations but also the poor quality of power. Hence, importance should not only be given for power availability but also for quality power availability.

### CEAC-303 is a complete Power-conditioner & Power Factor Corrector

**Optimises the product life & process uptime by 35%-40%.**

- Constant voltage, frequency, High Grade Premium quality power.
- Galvanic isolation at the output.
- Operating ambient temperature 0-45 degrees.
- Overload handling capability of 150% for 1 minute.
- High surge handling capability.

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# Optimise production process to improve Productivity and profitability...

Galvanic isolation offers
**Comprehensive Protection and High Availability.**

Mains grade raw power contains impurities and large percentages of harmonics injected into the line by various non-linear loads. The common problem of neutral drift can produce considerable increase in output voltage and permanently destroy your critical loads and data.

Isolation transformers increase load protection and ensure human safety by isolating the AC leakage current from developing a potential between the input and ground. Isolated output enhances the attenuation of common mode noise by increasing the impedance between the input and output.

Provides protection of loads against lightning. Galvanic isolation via transformer is the onlyway to safely protect loads from lightning. It provides protection from high energy transients, which are clamped at the AC input from propagating to the output.

Galvanic Isolation for
Comprehensive Power Protection

## Advanced Active Power PFC Online UPS

### Features

- Power Factor Corrected
- Digital Signal Processor
- Isolation Transformer
- SNMP
- Autobypass

### Power Factor Correction

- Reduces the running cost in terms of electricity bill
- Prevents the overrating of electrical wire
- Reduce reflected harmonies back to the source
- Savings in sizing of utility transformer & generator

### Technology

- DSP technology IGBT inverter - IGBT converter

### Toplogy

Bifilar PWM switching

### Interface

- SNMP compatible
- User-friendly LCD display
- True RMS reading
- Fault condition
- Status display
- Event logging

### Ideal Power-conditioner

- Constant Frequency source
- Premium Quality Galvaically isolated Power
- Power Factor Corrector

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# Technical Specifications

10KVA - 400KVA CEAC 303 SERIES ONLINE UPS

| | | |
|---|---|---|
| **TECHNOLOGY** | | DSP based, IGBT convertor, IGBT inverter UPS |
| RATING | | 10KVA - 400KVA |
| DC BUS | | 192VDC - 384VDC |
| **INPUT** | | |
| Input Voltage | | 415VAC, 3Ø & N |
| Input Voltage Window | | 330VAC - 470VAC |
| Input Frequency | | 45-55Hz |
| Input PFC | 100% load | > 0.95 |
| Power walk in | | Soft start for 0-20 seconds power walk-in. |
| **RECTIFIER** | | |
| Type | | IGBT based full bridge |
| Voltage Regulation( ± ) 1% | | |
| Ripple Voltage | | < 2% |
| Converter Protection | | Advanced Electronic Protection for device safety backed up, with MCB's/ MCCBs & fast acting fuses |
| **INVERTER** | | |
| Inverter Type | | IGBT based MPWM with instantaneous Sinewave Control |
| Output PF | | 0.8 lagging to unity |
| Nominal Voltage | | 415VAC, 3Φ, P-P / 230VAC, 1Φ, P-N |
| Regulation | | ( ± ) 1% |
| Frequency | | 50 Hz ± 0.1Hz |
| Waveform | | True Sinewave |
| Total Harmonic Distortion | Linear Load | < 2% |
| | Non Linear Load | < 5% |
| Transient Response | | Remains within +/- 5% & recover to normal within 20 msec |
| Over Load Capacity | 100% | Continuous |
| | 110% | 10 Minutes |
| | 150% | 1 Minute |
| Crest Factor | | 3:1 |
| Mode of Operation | | Designed for Continuous operation |
| ISOLATION | | True Online with complete galvanic isolation. |
| Inverter Protection | | Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses,high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. |
| **BYPASS** | | |
| Manual Bypass | | Provided |
| **ALARMS** | | |
| | | • Input / Low / Fail • Output overload • Over temperature • Battery low |
| LED Indications (Single LED with multi function ) | | |
| | | • Mains on • UPS on • Battery Low • Overload |
| | | • Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage |

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