

# LOW HARMONIC SERIES

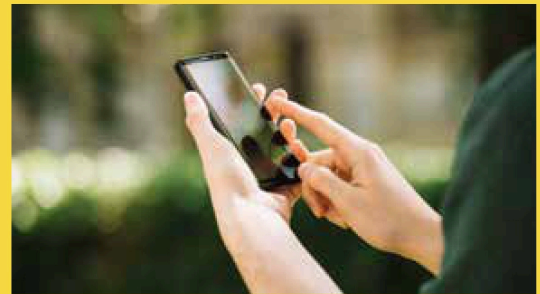
## Active Input PFC ONLINE UPS

### CEAC 101

### 1 $\Phi$ -1 $\Phi$ 5KVA-10KVA

#### Active boost PFC convertor

Unity PF  <7% THDi, 0.99PF



#### With Predictive Analysis Technology

Using GSM interface

For Remote monitoring and control

#### SNMP

- Remote management
- Event logging
- Self test

#### DSP controlled

- IGBT inverter
- Isolation Transformer
- Mains synchronised
- Auto bypass



Option to select the DC Voltage in 5KVA

# CEAC 101

5KVA - 10KVA



Active Green **CEAC 101** series is a double conversion single phase input-single phase output with Active Input Power Factor Correction.



#### Technology

- ▶ DSP technology
- ▶ IGBT inverter - IGBT converter



#### Topology

- ▶ Active boost topology - the highest reliable converter topology.



#### Interface

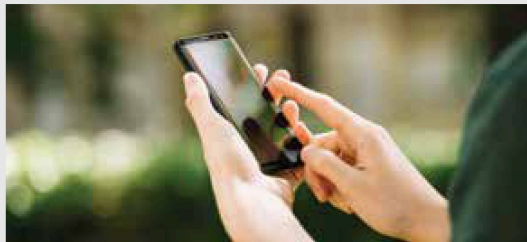
- ▶ SNMP compatible



#### User-friendly LCD display

- ▶ True RMS reading
- ▶ Fault condition
- ▶ Status display
- ▶ Event logging

## With GSM interface for Remote UPS monitoring & Control



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

Remote UPS power & battery health monitoring using GSM and SNMP.

Portable wireless device.



**Monitor from anywhere**

Real time status,  
Alert message with configurable alarm.

**Improves uptime of the UPS by 35%, Reduces service cost of the service provider by 35%.**

#### Ideal Power-conditioner

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

Reduces the breakdown of connected equipment by providing premium quality of power of constant voltage and frequency.

Cost of service and downtime reduces by 35%-40% leading to improved productivity and improved profit margins.



5YRS+ experience

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



1,000+ clients

# CEAC 101

5KVA-10KVA 1Φ-1Φ



Select the DC Voltage (option available in 5KVA) according to the VAH required using LCD display.



Designed for Harsh environment-  
Long Life Design



## Industrial Grade Design

- ▶ Easy servicable, single card using DSP.
- ▶ In compliance with bank tenders.
- ▶ Available for OEMs & exports.

## Specially designed for sensitive loads, CEAC 101 series provides

- ▶ The UPS is utility friendly and generator compatible and prevents the overrating of electrical wires, reduce reflected harmonics back to the source.
- ▶ Comprehensive power protection from lightning, ground noise, polluted neutral and ground drifts using galvanic isolation between input and output.
- ▶ Apart from providing backup on power failure a good UPS should also act as a good power conditioner and this is what PFC-101 does by providing international levels of voltage and frequency stabilization.
- ▶ Hot swappable battery option enables the faulty batteries to be replaced, even as the UPS continues to power the loads.

## Applications

- |                     |                     |                 |                               |
|---------------------|---------------------|-----------------|-------------------------------|
| • Offices           | • Finance Insurance | • PCs servers   | • LCD and LED sign boards     |
| • School & colleges | • Beauty parlors    | • Photocopiers  | • Browsing & internet centers |
| • Banking sector    | • Gym & fitness     | • Home theaters | • Tread mills and gym         |

# TECHNICAL SPECIFICATIONS

CEAC 101 5KVA-10KVA

TECHNOLOGY	Double conversion with the latest MPWM technology using <b>CEAC 101</b>   5KVA-10KVA			
MODEL	<b>CEAC 101</b> , Solar compatible.			
RATING	1Ø Input - 1Ø Output			
CAPACITY	5KVA / 10KVA			
DC BUS	5KVA	6KVA	7.5KVA	10KVA

## INPUT

Input Voltage	230VAC, 1Ø
Input Voltage Window	170VAC - 270VAC
Input Frequency	50Hz $\pm$ 10%
Power walk in	Soft start for 0-20 seconds power walk-in.
Input PFC	0.99 on full load
Input current harmonic distortion(THDi)	<7% @100 % Load

## RECTIFIER

Voltage Regulation	( $\pm$ ) 1%
Ripple Voltage	<2% without Battery
BATTERY-	SMF
Charger Type	CCCV
Charging Current Standard	0-10A

## INVERTER

Inverter Type	IGBT based MPWM with instantaneous Sinewave Control	
Power Factor	0.8 lag	
Nominal Voltage	230V/50Hz	
Regulation	( $\pm$ ) 1%	
Total Harmonic Distortion	Linear Load	<2%
	Non Linear Load	<4%
Over Load Capacity	125% -1 Minute : 150% 10 Seconds	
Transient Response	Output remains within +/- 5% & recover to normal within 20 msec	
Bypass	Auto bypass	

## EFFICIENCY

Efficiency- 100 % load	>85% - 90%	
Crest Factor	3:1	
Mode of Operation	Designed for Continuous operation	
ISOLATION	True Online with complete galvanic isolation for comprehensive power protection	
LCD Display shows the following parameters	• Input Voltage • Output Voltage • Load percentage • Output Frequency • Battery Voltage	
Fault status display with latch	• Mains on • Charger on • Inverter on • Battery Low • Overload • Inverter Trip	
PROTECTIONS	• Advanced Electronic Protection for device safety, backed up with MCB's/ MCCBs & fast acting fuses	
	• High speed pulse by pulse electronic device protection • Electronic over current trip with reset.	
ALARMS	• Input Under Voltage / Over Voltage • Rectifier Over Voltage	
	• Over Temperature • Over load • Battery low • Short circuit • High voltage transient protection & ESD protection as per IEC 62040-2	
Enclosure Protection	• Input low/ fail • Output Overload • Over Temperature • Battery low	
Cooling	IP-20	
Acoustic Noise level	Forced air	
Operating ambient Temperature	<60db @ 1.5 meter	
Humidity	0 to 40 ° C	
Dimensions in mm D x H x W/ Wt. in Kg	Up to 95% RH Non condensing	
Altitude	550* 550* 200 / 45kgs   550* 550* 200 / 50kgs   550* 550* 200 / 55kgs   600* 650* 240 / 70kgs	
TESTING STANDARD	< 3000 Feet above sea level (without derating)	
	As per IEC 62040-3	

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