

LOW HARMONIC SERIES

Active Input PFC ONLINE UPS

AG PFC 101

1Φ-1Φ 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

AG PFC 101

5KVA - 10KVA



Active Green PFC101 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.



100% indogenous - designed in our end-end full fledged in-house R&D.



Winner of the national award by Soft Disk for the year 2017-18



Best in-house R&D among the Indian UPS manufacturers

AG PFC 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, AG PFC-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
- School & colleges
- Banking sector

- Finance Insurance
- Beauty parlors
- Gym & fitness

- PCs servers
- Photocopiers
- Home theaters

- LCD and LED sign boards
- Browsing & internet centers
- Tread mills and gym

TECHNICAL SPECIFICATIONS

AG PFC 101 5KVA-10KVA

TECHNOLOGY		Double conversion with the latest MPWM technology using AG PFC 101 5KVA-10KVA			
MODEL		AG PFC101, 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 ± 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		(±) 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		(±) 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. • 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			
ALARMS		• Input low/ fail • Output Overload • Over Temperature • Battery low			
Enclosure Protection		IP-20			
Cooling		Forced air			
Acoustic Noise level		<60db @ 1.5 meter			
Operating ambient Temperature		0 to 40 ° C			
Humidity		Up to 95% RH Non condensing			
Dimensions in mm D x H x W/ Wt. in Kg		550* 550* 200 / 45kgs 550* 550* 200 / 50kgs 550* 550* 200 / 55kgs 600* 650* 240 / 70kgs			
Altitude		< 3000 Feet above sea level (without derating)			
TESTING STANDARD		As per IEC 62040-3			