

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

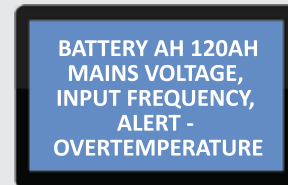
With GSM interface for Remote UPS monitoring & Control



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% indigenous - 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

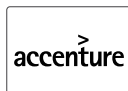
- ▶ The UPS is utility friendly and generator compatible and prevents the overrating of electrical wires, reduce reflected harmonics back to the source.
- ▶ Comprehensive power protection from lightning, ground noise, polluted neutral and ground drifts using galvanic isolation between input and output.
- ▶ 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

Approved vendors for

Our esteemed customers have been using AGPFC101 for various applications across the country from past 19 years and have certified the performance of the same.



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



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