

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

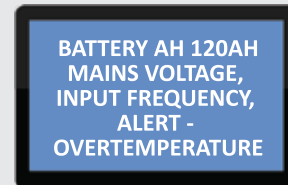
With GSM interface for Remote UPS monitoring & Control



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.

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	<ul style="list-style-type: none"> • 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

BKC INNOVATIONS

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 BKC Innovations: "Empowering Your Future with Reliable Power Solutions"