



Active Green UPS 5KVA To 10KVA AGU 101

## TECHNICAL SPECIFICATIONS

<b>TECHNOLOGY</b>		Green UPS with Unity IPF   Power-conditioning with IT   Double conversion   MPWM technology inverter using IGBT.
RATING		5KVA To 10KVA
DC BUS		120 VDC - 240VDC
<b>INPUT</b>		
Input Voltage		230V AC 1Ø
Input Voltage Window		170-270V
Input Frequency		50Hz ± 10%
Input PFC	100 % Load	0.99
Input current harmonic distortion(THDi) on full load		< 10 %
Power walk in		Soft start for 0-20 seconds power walk-in.
<b>RECTIFIER</b>		
Type		Unity PF with Boost topology*
<p><b>Note:</b> The conventional PFC Online UPS with PF around 0.95 uses buck topology for convertor and is highly susceptible for high voltage and generator change-over. It also has high failure rates in coastal areas where lightning is a common phenomenon. The RFI and EMI generated by buck type switching is very high and can lead to disturbance in network communication.</p>		
Voltage Regulation		( ± ) 1%
Ripple Voltage		< 2%
Converter Protection		Advanced Electronic Protection for device safety backed up with MCB's & fast acting fuses
<b>INVERTER</b>		
Inverter Type		IGBT based MPWM with instantaneous Sinewave Control
Power Factor		0.8
Nominal Voltage		220VAC / 230VAC
Regulation		( ± ) 1%
Frequency		50 Hz ± 0.1Hz
Waveform		True Sinewave
Total Harmonic Distortion	Linear Load	< 2%
	Non Linear Load	< 6%
Transient Response		Remains within +/- 5% & recover to normal within 20 msec
Over Load Capacity	100%	Continuous
	125%	1 Minute
Crest Factor		3:1
Mode of Operation		Designed for Continuous operation

\*Specifications are indicative to our standard models subject to change without notice.

ISOLATION		True Online with complete galvanic isolation.
Inverter Protection		Advanced Electronic Protection for device safety backed up with MCB's & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip.
BYPASS		
Manual Bypass		Provided
<b>Compatible / optional features</b>		
Staic / auto by-pass using relay (optional)		Optional
SNMP (optional)		
4-line display (optional)		
<b>AC-AC efficiency</b>	100 % load	>86 % To > 88 %
<b>ALARMS</b>		
		Input / Low / Fail
		Output Overload
		Over Temperature
		Battery low
LED Indications (Single LED with multi function)		
		• Load On Mains
		• Load on Battery
		• Battery Low
		• Overload
		• UPS Fault
User Friendly LCD Display shows the following parameters		
		• Input Voltage
		• Output Voltage
		• Load current
		• Output Frequency
		• Battery Voltage
		• UPS Status
<b>BATTERY</b>		
Battery Type		SMF/ Tubular
Charging Current Standard		up to 8 Amps
<b>PHYSICAL</b>		
Enclosure Protection Grade		IP - 20
Cooling		Forced Air
Cable Entry		Back side bottom