

# Hykon®

Powering the Nation



Online

## UPS

<b>Alpha</b>	<b>Galaxy</b>
5KVA-15KVA	20KVA-200KVA

### Features

- ▶ Cold Start function
- ▶ Microprocessor control guarantees high reliability
- ▶ Sleek design with minimum foot print
- ▶ LCD display for monitoring
- ▶ Equipped with the comprehensive self-protection design
- ▶ In-built Isolation Transformer for protecting expensive equipments
- ▶ Operation systems and remote monitoring of the UPS (Optional)



APPLICATION : IT AS WELL AS INDUSTRIAL GRADE DESIGN

## Best Quality Power ensures better operation of Electronic Equipments

For best operation of electronic equipments quality of power plays a key role. Hykon online UPS with advanced topology ensures best quality power to the load which is being operated using UPS. Total harmonic distortion is very low compare to any other UPS. Also input power factor has been improved to ensure power quality.



## Alpha/Galaxy Series is a complete Power-conditioner

Optimises the product life & process uptime by 35%-40%.

- ▶ Galvanic isolation at the output.
- ▶ Improved frequency range
- ▶ Surge handling capability.
- ▶ Constant voltage
- ▶ Operating ambient temperature 0-50 degrees.
- ▶ Overload handling capability of 110% for 1 minute.
- ▶ High Grade Premium quality power.

## Galvanic Isolation Transformer provides protection to load

In order to reduce harmonics in the supply line we need to provide better protection to ensure our load is safe. The common problem of neutral drift can produce considerable increase in output voltage and permanently destroy your critical loads and data.

Isolation transformers increase load protection and ensure human safety by isolating the AC leakage current from developing a potential between the input and ground. Isolated output enhances the attenuation of common mode noise by increasing the impedance between the input and output.

Provides protection of loads against lightning. Galvanic isolation via transformer is the only way to safely protect loads from lightning. It provides protection from high energy transients, which are clamped at the AC input from propagating to the output.



## Smart digital LCD display & LED indications for analyzing UPS & Battery parameters

Alpha/Galaxy UPS comes with smart LCD Digital display that ensures all parameters of UPS and Battery are accessible to customers as well as service engineers for trouble shooting and monitoring performance of UPS & Battery.

**The parameters that can be analyzed using display are as follows :**

- ▶ AC input voltage
- ▶ AC output voltage
- ▶ Battery voltage
- ▶ Output frequency
- ▶ Output load percentage
- ▶ Charging current

### LED indications

Alpha/Galaxy UPS comes with LED indications as follows :

- ▶ Mains ON
- ▶ Inverter ON
- ▶ Battery Low
- ▶ Over Load
- ▶ Trip



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## RS 232 - Serial port

Using RS 232 Serial port we can monitor an online UPS using RS 232 Serial cable through which we can fetch the live details of UPS as well as battery parameters and can check whether UPS working is proper. This can be done on by physically going near UPS and connect the same using cable. We require a software to analyze the parameters.

## SNMP-Simple Network Monitoring Protocol

Remote Monitoring

Trouble shooting

Preventive Action



## Remote UPS monitoring software interface

Remote management system allows the UPS to be monitored via a computer with status information and alarm messages being displayed on the computer itself. The software may also send out email and text alert messages to predefined addresses and mobile numbers if an alarm condition occurs. At a preset battery run time level, the UPS can be set to signal the remote management software to being an orderly shutdown of the computer system.



Rating		5KVA	6KVA	7.5KVA	10KVA
Technology		DSP based, IGBT inverter-IGBT converter Online UPS.			
DC Bus		120/144/168/192/240 VDC		144/168/192/240 VDC	168/192/240 VDC
Input					
Input Voltage		230VAC, 1Ø & N			
Input Voltage Window		170VAC - 270VAC			
Input Frequency		45-55Hz			
Input PFC	100% load	> 0.85			
Power walk in		Soft start for 0-20 seconds power walk-in.			
Rectifier					
Type		IGBT based full bridge			
Voltage Regulation		( ± ) 1%			
Ripple Voltage		< 2%			
Converter Protection		Advanced Electronic Protection for device safety backed up, with MCB's/ MCCBs & fast acting fuses			
Inverter					
Inverter Type		IGBT based MPWM with instantaneous Sinewave Control			
Output PF		0.8 lagging to Unity			
Nominal Voltage		230VAC, 1Φ, P-N			
Regulation		( ± ) 1%			
Frequency		50 Hz ± 0.1Hz			
Waveform		True Sinewave			
Total Harmonic	Linear Load	< 2%			
Distortion	Non Linear Load	< 5%			
Over Load	110%	1 Minute			
Capacity	120%	30 Seconds			
Efficiency		85 %			
Crest Factor		3 : 1			
Isolation		True Online with complete galvanic isolation.			
Inverter Protection		Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses,high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip.			
Bypass					
Manual Bypass		Provided			
Alarms					
		• Input / Low / Fail • Output overload • Over temperature • Battery low			
LED Indications (Single LED with multi function )					
		• Mains ON • UPS ON • Battery Low • Overload			
		• Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage			
Dimension (W x D x H) mm		235x600x470	275x645x475	275x850x685	



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Rating		5KVA	6KVA	7.5KVA	10KVA	15KVA	20KVA	30KVA
Technology		DSP based, IGBT inverter-IGBT converter Online UPS.						
DC Bus		180 VDC		180/240 VDC	240/360 VDC		360 VDC	
Input								
Input Voltage		415VAC, 3Ø & N						
Input Voltage Window		330VAC - 470VAC						
Input Frequency		45-55Hz						
Input PFC	100% load	> 0.85						
Power walk in		Soft start for 0-20 seconds power walk-in.						
Rectifier								
Type		IGBT based full bridge						
Voltage Regulation		( ± ) 1%						
Ripple Voltage		< 2%						
Converter Protection		Advanced Electronic Protection for device safety backed up, with MCB's/ MCCBs & fast acting fuses						
Inverter								
Inverter Type		IGBT based MPWM with instantaneous Sinewave Control						
Output PF		0.8 lagging to Unity						
Nominal Voltage		230VAC, 1Ø, P-N						
Regulation		( ± ) 1%						
Frequency		50 Hz ± 0.1Hz						
Waveform		True Sinewave						
Total Harmonic	Linear Load	< 2%						
Distortion	Non Linear Load	< 5%						
Over Load	110%	1 Minute						
Capacity	120%	30 Seconds						
Efficiency		85 %						
Crest Factor		3 : 1						
Isolation		True Online with complete galvanic isolation.						
Inverter Protection		Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses,high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip.						
Bypass								
Manual Bypass		Provided						
Alarms								
		• Input / Low / Fail • Output overload • Over temperature • Battery low						
LED Indications (Single LED with multi function )								
		• Mains ON • UPS ON • Battery Low • Overload						
		• Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage						
Dimension (W x D x H) mm		235x600x470	270x645x475	275x850x685		660x650x960		



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Rating		10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA
Technology		DSP based, IGBT inverter-IGBT converter Online UPS.							
DC Bus		240/360 VDC		360 VDC					
Input									
Input Voltage		415VAC, 3Ø & N							
Input Voltage Window		330VAC - 470VAC							
Input Frequency		45-55Hz							
Input PFC	100% load	> 0.85							
Power walk in		Soft start for 0-20 seconds power walk-in.							
Rectifier									
Type		IGBT based full bridge							
Voltage Regulation		( ± ) 1%							
Ripple Voltage		< 2%							
Converter Protection		Advanced Electronic Protection for device safety backed up, with MCB's/ MCCBs & fast acting fuses							
Inverter									
Inverter Type		IGBT based MPWM with instantaneous Sinewave Control							
Output PF		0.8 lagging to Unity							
Nominal Voltage		400VAC, 3Φ, P-P : 230VAC P-N							
Regulation		( ± ) 1%							
Frequency		50 Hz ± 0.1Hz							
Waveform		True Sinewave							
Total Harmonic	Linear Load	< 2%							
Distortion	Non Linear Load	< 5%							
Over Load	110%	1 Minute							
Capacity	120%	30 Seconds							
Efficiency		85 %							
Crest Factor		3 : 1							
Isolation		True Online with complete galvanic isolation.							
Inverter Protection		Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses,high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip.							
Bypass									
Manual Bypass		Provided							
Alarms									
		• Input / Low / Fail • Output overload • Over temperature • Battery low							
LED Indications (Single LED with multi function )									
		• Mains ON • UPS ON • Battery Low • Overload							
		• Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage							
Dimension (W x D x H) mm		750x660x1140				850x790x1560		1275x650x1370	



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# ONE LAKH CUSTOMERS AND COUNTING.....

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



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