

Hykon®

Powering the Nation



Online

UPS

Alpha | **Galaxy**
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.



 **Customer support - 9020 121 121 / 1860 425 0121**

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.



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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, 1Ø, P-N			
Regulation	(±) 1%			
Frequency	50 Hz ± 0.1Hz			
Waveform	True Sinewave			
Total Harmonic Distortion 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 Distortion 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, 3Ø, P-P : 230VAC P-N							
Regulation	(±) 1%							
Frequency	50 Hz ± 0.1Hz							
Waveform	True Sinewave							
Total Harmonic Distortion 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	<ul style="list-style-type: none"> • Input / Low / Fail • Output overload • Over temperature • Battery low 							
LED Indications (Single LED with multi function)	<ul style="list-style-type: none"> • 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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Customer support - 9020 121 121 / 1860 425 0121

www.hykonindia.com

Online UPS HT Series

1-10 KVA
(1Φ -1Φ)



Control Panel



Web Module



Remote Monitoring

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.

Android Module



Features

- ◆ High frequency and double conversion online technology
- ◆ Fully digitized microprocessor control
- ◆ Wide input voltage range
- ◆ Highly efficient upto 92%
- ◆ High input power factor 0.99
- ◆ LCD display
- ◆ Cold start function
- ◆ IGBT both Inverter & Rectifier stage
- ◆ Advanced battery management
- ◆ Automatic battery charge in UPS off mode
- ◆ Short circuit & overload protection
- ◆ EMI/RFI noise filter
- ◆ Smart RS 232/SNMP communication with monitoring software
- ◆ Optional SNMP card slot
- ◆ Highly reliable digital control
- ◆ Fully protection function
- ◆ Parallel redundancy from 5KVA UPS onwards

Protection



Over Load



Short Circuit



Battery Deep Discharge



Battery Over Charge



Over Temperature

CAPACITY	1KVA	2KVA	3KVA	5KVA	6KVA	7.5KVA	10KVA
INPUT							
Nominal Voltage	220VAC/230VAC						
Operating Voltage Range	160 ~ 280 VAC						
Operating Frequency Range	45~55 Hz						
Power Factor	0.99						
THDi (Current harmonics)	<2% for linear load, <5% for non-linear loads						
RECTIFIER	IGBT						
OUTPUT	IGBT						
Output Voltage	220 Vac / 230 Vac ± 1%						
AC Volt. Reg. (Batt. Mode)	± 1%						
Frequency Range	50 Hz ± 1%						
Crest Factor	3 : 1 (max)						
THDv (Voltage harmonics)	<2% for linear load, <5% for non-linear loads						
Overload	125% : 1min; 150 % : 200ms						
Transfer Time	0 ms Mains to Battery						
	2 ms Bypass						
Power Factor	0.8, 0.9 (optional)						
Isolation transformer	Inbuilt (optional)						
EFFICIENCY							
Overall	90%~92%						
BATTERY							
Battery Voltage	24V/36V	72V/96V	192V/240V				
Charging Current (max)	5-15A						
DISPLAY	Input Voltage, Output Voltage, Load current, Output Frequency Battery Voltage, UPS Status						
INDICATIONS	Load On Mains, Load on Battery, Battery Low, Overload, UPS Fault						
ALARM	Input / Low / Fail, Output Overload, Over Temperature, Battery low						
ENVIRONMENT							
Temperature	0° C to 40° C						
Operational Humidity	0 to 95%						
Noise Level	< 60dB (1m from the surface level)						
PARALLEL REDUNDANCY	5KVA onwards (Optional)						
COMMUNICATION	USB, RS 485, RS 232, SNMP (Optional)						
DIMENSION (W*D*H) mm	144*419*215	191*478*339	220*481*438	250*500*650	220*481*438	250*500*650	
CERTIFICATIONS	ISO 9001:2015, ISO 14001:2015, CE , ROHS, OHSAS						



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Helpline **9020 121 121 / 1860 425 0121**



Online UPS HT Series

10-800 KVA
(3Φ - 1Φ & 3Φ - 3Φ)



Protection



Over Load



Short Circuit



Battery Deep
Discharge



Battery Over
Charge



Over
Temperature

Web Module



Android Module



Remote Monitoring

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.

Features

- ❖ True On-Line, Double-Conversion
- ❖ DSP Technology Guarantees High Performance
- ❖ Wide Input Voltage Range 190~520V AC 3Ph
- ❖ Output Power Factor 0.9
- ❖ Active Power Factor Correction
- ❖ 50Hz/60Hz Frequency Converter Mode
- ❖ ECO Mode Operation for Energy Saving (ECO)
- ❖ Emergency Power Off Function (EPO)
- ❖ Generator Compatible
- ❖ 3-Stage Extendable Charging Design for Optimized Battery Performance
- ❖ Maintenance Bypass Available
- ❖ SNMP+USB+RS232 Multiple Communications Facility Available
- ❖ Optional Parallel Operation

CAPACITY	10KVA	15KVA	20KVA	25KVA	30KVA	40KVA	50KVA	60KVA	80KVA-800KVA
INPUT									
Nominal Voltage	415V 3 Ø & N								
Operating Voltage Range	330-470 Vac @100% load, Three Phase (4 wire)								
Operating Frequency Range	50Hz±10%								
Input Power Factor	> 0.99								
THDi	<2% (linear load), <3% (nonlinear load)								
RECTIFIER	IGBT								
OUTPUT (INVERTER)	IGBT								
Output Voltage	380/400/415 Vac								
AC Volt. Reg. (Batt. Mode)	± 1%								
Frequency Range	50 Hz ± 0.1Hz								
Crest Factor	3:1								
THDv	<2% linear load, <3% nonlinear load								
Transfer Time	0 ms Mains to Battery								
	0 ms Bypass								
Output Power Factor	0.8 , 0.9 (optional)								
Isolation transformer	Inbuilt (optional)								
EFFICIENCY									
Overall	> 90% , 95% (optional)								
BATTERY									
Battery Voltage	240 Vdc			360 Vdc			600 Vdc		
Charging Current (max.)	10 A								
DISPLAY	LCD Display indicating (I/p V, O/P V,I/P Freq, O/P Freq, Load capacity, Battery V								
INDICATIONS	LED indications :Mains, AC Mode, DC Mode, Low battery, Overload								
ALARM	Battery low voltage, abnormal power supply, UPS failure, Overload								
ENVIRONMENT									
Temperature	0-40°C								
Operational Humidity	0-95%								
Noise Level	<55 dB (1 meter)								
COMMUNICATION	RS 232, SNMP (OPTIONAL)								
PROTECTION	Protection for battery low voltage, overload, short circuit and over temperature								
ENCLOSURE	IP 20								
EPO (EMERGENCY POWER OFF)	Standard								
PARALLEL OPERATION	Up to 8 units								
CERTIFICATIONS	ISO 9001:2015, ISO 14001:2015 , CE , ROHS, OHSAS								



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Helpline **9020 121 121 / 1860 425 0121**

Rack Mount UPS

HR Series

1-10 KVA
(1 ϕ & 3 ϕ)



Web Module



Android Module



Protection



Over Load



Short Circuit



Battery Deep
Discharge



Battery Over
Charge



Over
Temperature

Remote Monitoring

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.

Features

- ❖ High frequency and double conversion online technology
- ❖ Fully digitized microprocessor control
- ❖ Wide input voltage range
- ❖ LCD display
- ❖ UPS start up without battery
- ❖ Cold start
- ❖ Advanced battery management
- ❖ Automatic battery charging in UPS off mode
- ❖ Lightning and surge protection
- ❖ Fan speed adjusted by load automatically
- ❖ Network/fax/modem surge protection
- ❖ Optional extension battery pack
- ❖ Battery voltage display
- ❖ Load capacity display
- ❖ EMI/RFI noise filter
- ❖ Smart RS323 communication with monitoring software
- ❖ Optional SNMP card slot
- ❖ EPO function (optional)
- ❖ Input L and N reversed alarm function

CAPACITY		1KVA	2KVA	3KVA	5KVA	6KVA	7.5KVA	10KVA
INPUT								
Nominal Voltage		220/230VAC, 380/400/415 VAC						
Operating Voltage Range		120-276 VAC ; 305-478 VAC						
Operating Frequency Range		46Hz-54Hz at 50HZ/56Hz-64Hz at 60HZ						
Power Factor		≥0.99						
THDi		<2% (linear load), <5% (100% nonlinear load)						
RECTIFIER		IGBT						
OUTPUT (INVERTER)		IGBT						
Output Voltage		208VAC/220VAC/230VAC/240VAC						
AC Volt. Reg. (Battery Mode)		±1%						
Frequency Range		(50/60 ± 0.2) Hz						
Crest Factor		3 : 1 (max)						
THDv		<2% (100% linear load), <3% (100% nonlinear load)						
Overload		108%±5%<load ≤ 150%±5% > 30s 150%±5%<load < 200%±5% > 300ms						
Transfer Time	AC mode to Battery Mode	0 ms						
	Inverter to Bypass	<4ms						
Power Factor		0.9						
EFFICIENCY								
Overall		≥92%						
BATTERY								
Long-run Model	Battery Voltage	1KVA/36V, 2KVA/72/96V, 3KVA/72/96V 10KVA/240V, 15KVA/240V, 20KVA/240V						
	Charging Curnt. (max.)	5-7 A						
DISPLAY		I/P V/freq, O/P V/freq, Battery V, Load Watts/VA value & percent, Inverter temperature, Operation mode such as online, on battery or on bypass						
INDICATIONS		Green LED for normal operation, Yellow LED for warning condition, Red led for abnormal operation						
ALARM		Input / Low / Fail, Output Overload, Over Temperature, Battery low						
PHYSICAL								
Long-run Model	1U = 1.75" height	1KVA (2U) , 2KVA (2U) , 3KVA (3U), 6KVA (3U) 10KVA (3U) , 15KVA(6U), 20KVA(6U)						
ENVIRONMENT								
Temperature		0° C ~ 40° C						
Operational Humidity		0% ~ 95% (non-condensing)						
Noise Level		<45 dB						
COMMUNICATION		Rs232 , SNMP (optional)						
PROTECTION		Lightning & Surge protection, Short circuit & overload protection						
CERTIFICATIONS		ISO 9001:2015, ISO 14001:2015 , CE , ROHS, OHSAS						



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Hykon Modular UPS



Over Load



Short Circuit



Battery Deep Discharge



Battery Over Charge



Over Temperature



Backup Mode



Web Module

Remote Monitoring

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.



Android Module

Features

- ❖ **Modular Design**
Up to 20 power module in parallel online hot-swappable N+X redundancy
- ❖ **Independent Charger**
Independent charger for each module and intelligently control the whole charging process, prolong the life time of the battery
- ❖ **Battery Cold Start**
UPS can be powered on from the battery without utility
- ❖ **Easy Connection Access**
Top and bottom cable entry connection are supported, more convenient for site installation
- ❖ **High Power Density**
200kVA with footprint of about 0.5m, 2 saving valuable data center space
- ❖ **Integrated IGBT Design**
Integrated IGBT in one module, less failure points with higher performance and reliability
- ❖ **Friendly Interface**
Touch LCD display with abundant information
- ❖ **Independent Air Channel**
Cooling air runs in isolated channel, keeping PCB free of dust

PARAMETERS		Hykon HM 11/31/33 Series (6-60KVA)
UPS Rack capacity		24K, 40K, 60K // 120K, 180K, 200K, 300K
Module capacity		6KVA, 10KVA, 15KVA // 20KVA, 30KVA
INPUT		
Nominal Voltage		208/220/230/240VAC, 415V 3 Ø & N
Operating Voltage Range		176-276 Vac, 330-470 Vac @100% load
Operating Frequency Range		40-70 Hz
Input Power Factor		> 0.99
THDi		<4% for 100% load
RECTIFIER		
OUTPUT (INVERTER)		
Output Voltage		380/400/415 Vac
AC Volt. Reg. (Batt. Mode)		± 1%
Frequency Range		50 Hz ± 0.1Hz
Crest Factor		3:1
Total Harmonic Distortion		<1% linear load, <5% linear load
Transfer Time	AC mode to Batt. Mode	0ms
	Inverter to Bypass	0ms
Output Power Factor		0.8 , 0.9 & 1 (unity) (optional)
EFFICIENCY		
Overall		> 94% , from 20KVA 96%
Inverter		>92% , from 20KVA 96%
Module size		6KVA, 10KVA, 15KVA (3U), 20KVA (2U/3U), 30KVA (2U/3U)
Cabinet size		24K, 40K, 60K (19U), 120K(2U 20KVA*6), 180K(2U 30 KVA*6), 200K(3U 20KVA*10), 300K(3U 30KVA*10)
BATTERY		
Long-run Model	Battery Type	SMF/ TUBULAR
	Battery Voltage	+/- 240V
	Charging Current. (max.)	20% of system power
DISPLAY		LCD Display indicating (I/p V, O/P V, I/P Freq, O/P Freq, Load capacity, Battery V, Discharge timer, Fault condition
LED INDICATIONS		Mains, AC Mode, DC Mode, Low battery, Overload
ALARM		Battery low voltage, abnormal power supply, UPS failure, Overload
ENVIRONMENT		
Temperature		0~40°C
Operational Humidity		0~95%
Noise Level		<55 dB (1 meter)
COMMUNICATION		RS 232/USB, SNMP
PROTECTION		Protection for battery low voltage, overload, short circuit and over temperature



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