

KRYKARD[®]



NO COMPROMISE ONLINE UPS

Comprehensive Protection for
your Critical Equipment



OUR WIDE RANGE OF SOLUTIONS

MEASURE



- Power Quality Analysers
- Thermal Imagers
- Insulation Testers
- Oscilloscopes
- Earth Testers
- Clamp Meters
- Digital Multimeters
- Micro-ohmmeters

PROTECT



- Servo Stabilisers
- Static Voltage Regulators
- Isolation Transformers
- Online UPS

CONSERVE

- Enterprise EnMS
- WAGES
- Utility Monitoring
- ISO 50001
- PQ Management Solutions

- Multi-Utility Billing
- User Portal
- Mobile App
- Tenant & Area Management



- Production Management
- Quality Management
- Asset Performance
- Process Control
- Operator Productivity

- GHG Protocol-Scope 1, 2, & 3 Emissions
- GRI/CSRD/BRSR Compliance

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ABOUT US

Atandra Energy Pvt. Ltd., headquartered in Chennai, draws upon a rich foundation of more than 39 years of expertise in the realm of Power & Energy Management.

We offer solutions to industrial and commercial establishments under our popular brand KRYKARD. With over 5,00,000 installations of Power Conditioners and over 1,50,000 installations of Portable and Panel Load Managers, KRYKARD is one of the leading brands in Power Conditioning & Energy Management.

Our Servo Stabilizers and Transformers have obtained CE certification, providing our customers with the assurance that these products adhere to rigorous global health, safety, and environmental protection standards.

We have the following facilities:

- R&D department for Power Electronics and Electromagnetics.
- Software Development department for energy management software and Industry 4.0 solutions.

Our organization has the following certifications:
ISO 9001:2015 | 14001 - 2015 | 45001 - 2018 | 50001

State-of-the-art facilities empower us to address the requirements of Indian industries comprehensively, effectively and efficiently, ensuring they derive maximum benefits from the power conditioning & energy management solutions we provide.

With a taskforce of around 450 employees and an extensive network of sales and service branches nationwide, we are well-equipped to seamlessly reach out to our customers and fulfil their needs.



MANUFACTURER OF SERVO STABILISERS



100+ SERVICE CENTERS



PREFERRED SUPPLIER OF LARGE CORPORATES & OEM'S



CE CERTIFIED PRODUCTS

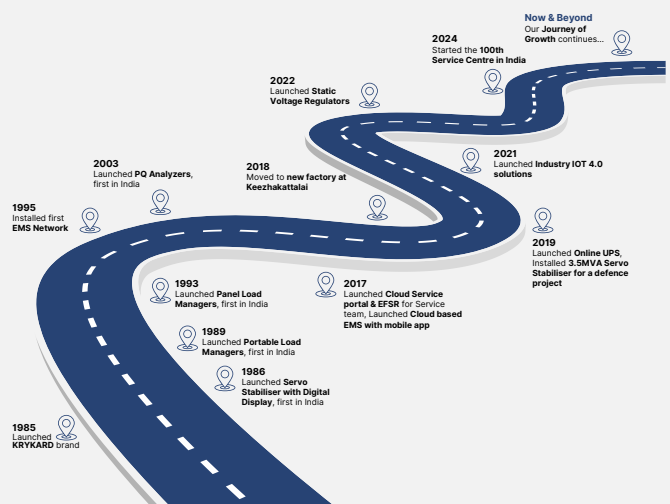


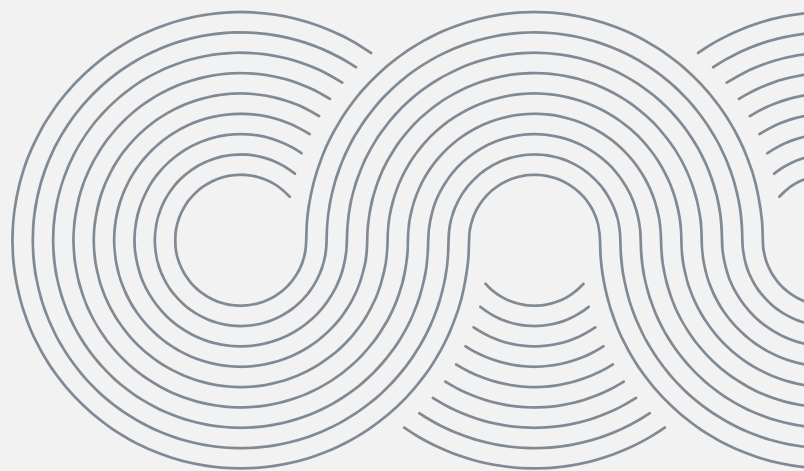
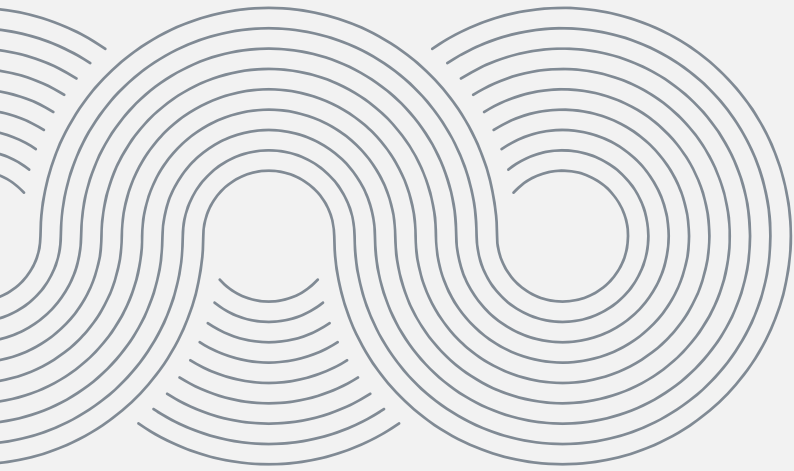
39 YEARS EXPERIENCE

OUR NETWORK



OUR JOURNEY





RELIABLE POWER SOLUTIONS FOR UNINTERRUPTED PERFORMANCE



Features

Advantages

Benefits

<ul style="list-style-type: none"> • Wide input voltage range (110 ~ 300 Vac) • Linear load derating for input voltages under 176 V and above 280 V to reduce battery usage • Settable delayed start & Rectifier soft star function • Static bypass mode for Auto switch over during UPS fault 	<ul style="list-style-type: none"> • Maximizes Mains Mode function, reduces Battery usage, extends Battery life • Prevents Generator Overload due to starting inrush current • Seamless transfer, uninterrupted uptime 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> • Frequency range (40 ~ 70 Hz) • Multiple Functions settable • Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> • 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion • Eco Mode, Frequency conversion mode, Output Voltage User selectable 208 / 220 / 230 / 240 V • Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> • Online Double conversion with Advanced dual-core DSP control Technology • Remote monitoring through SNMP • Standard Emergency Power off (EPO) • Advanced Battery Management • Complete Protection for connected equipment 	<ul style="list-style-type: none"> • Faster and more precise control ($\pm 1\%$ regulation), ensuring stable output power under varying load conditions • Allows to monitor and respond to issues quickly • Safety during faults • Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life • Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage 	<p>High Reliability</p>
<ul style="list-style-type: none"> • Transformerless Design • Automatic Power Factor Correction @ Input for PF up to 0.99 • Less Thermal Load 	<ul style="list-style-type: none"> • Low Operating Cost - High Efficiency - Upto 95.5% on Online mode; Upto 98.5% on Eco mode; • Maximum utilization of UPS capacity • Economical sizing of the upstream network components • Better efficiency results in lower heat, saving on Air Conditioning 	<p>Low Total Cost of Ownership (TCO)</p>

KRYKARD EL / ELB SERIES 1/1 UPS (1 kVA & 3 kVA)

SPECIFICATION											
MODEL	EL - 01		EL - 03		ELB - 01		ELB - 03				
Rated Capacity	1 kVA / 1kW		3 kVA / 3 kW		1 kVA / 900 W		3 kVA / 2.7 kW				
INPUT											
Input Wiring	Single - Phase Three - wire (1 Φ + N + PE)										
Rated Voltage	208 / 220 / 230 / 240 Vac										
Voltage Range	110 ~ 176 Vac (linear derating between 50% and 100% load), 176 ~ 280 Vac (no derating), 280 ~ 300 Vac (derating 50%)										
Frequency	40 / 70 Hz (auto-sensing)										
Power Factor	≥ 0.99										
Bypass Voltage Range	-25% ~ +15% (settable)										
Total Harmonic Distortion (THDi)	$\leq 5\%$										
OUTPUT											
Output Wiring	Single - phase Three - wire (1 Φ + N + PE)										
Rated Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)										
Voltage Regulation	$\pm 1\%$										
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz $\pm 0.1\%$ Hz (battery mode)										
Waveform	Sinusoidal										
Power Factor	1.0				0.9						
Total Harmonic Distortion (THDv)	$\leq 2\%$ (linear load); $\leq 5\%$ (non-linear load)										
Crest Factor	3:1										
Overload	105% - 110% for 30 min, 110% - 130% for 10 min, 130% - 150% for 30s, > 150% for 500 ms										
BATTERIES											
DC Voltage	36 V		72 V		96 V		36 V		96 V		
No. of Batteries	3 Pcs		6 Pcs		8 Pcs		3 x 7 Ah (inbuilt)		8 x 7 Ah (inbuilt)		
Charging Current (Max.)	12 A (1-12 settable)						-				
Recharge Time	Inbuilt Battery model - 90% capacity restored in 3 hours; External Battery model - depends on the battery rating										
SYSTEM											
Efficiency	$\geq 93.5\%$ (Mains mode) $\geq 89.2\%$ (Battery mode) $\geq 97.5\%$ (ECO mode)			$\geq 94.6\%$ (Mains mode) $\geq 92.5\%$ (Battery mode) $\geq 98.5\%$ (ECO mode)			$\geq 90\%$ (Mains mode) $\geq 85\%$ (Battery mode), $\geq 95\%$ (ECO mode)			$\geq 92\%$ (Mains mode) $\geq 87\%$ (Battery mode) $\geq 97\%$ (ECO mode)	
Transfer Time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)										
Protections	Short-circuit, Over load, Over temperature, Battery discharge protection, Fan testing protection										
Communications	RS 232 (standard), USP / RS485 / dry contacts / SNMP (optional)										
Display	LCD + LED										
OTHERS											
Operating Temperature	0° C ~ 40° C										
Storage Temperature	-25° C ~ 55° C (without battery)										
Relative Humidity	0% ~ 95% (non-condensing)										
Altitude	≤ 1000 m; derating 1% for each additional 100 m										
IP Rating	IP 20										
Noise Level at 1m	≤ 50 dB										
Dimensions (W x D x H) (mm)	144 x 312 x 216			144 x 417 x 216			144 x 317 x 216			191 x 419 x 335	
Net Weight (kg)	4			6.5			12.8			29.4	

SMALLER FOOTPRINT WITH ROBUST BACKUP SOLUTIONS



Features

Advantages

Benefits

<ul style="list-style-type: none"> Wide input voltage range (110 ~ 288 Vac) Linear load derating for input voltages under 176 V to reduce battery usage Settable delayed start & Rectifier soft star function Static bypass mode for Auto switch over during UPS fault 	<ul style="list-style-type: none"> Maximizes Mains Mode function, reduces Battery usage, extends Battery life Prevents Generator Overload due to starting inrush current Seamless transfer, uninterrupted uptime 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> Frequency range (40 ~ 70 Hz) Multiple Functions settable Battery compatibility Flexible battery configuration Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion Eco Mode, Frequency conversion mode, Output Voltage User selectable 208 / 220 / 230 / 240 V VRLA / Li-ion Battery compatible Settable 16 - 20 batteries. Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> Online Double conversion with Advanced dual-core DSP control with 3-level topology Remote monitoring through SNMP Standard Emergency Power off (EPO) Advanced Battery Management Advanced Digital Parallel architecture Fan speed varies intelligently with temperature Complete Protection for connected equipment 	<ul style="list-style-type: none"> Faster and more precise control ($\pm 1\%$ regulation), ensuring stable output power under varying load conditions with better efficiency Allows to monitor and respond to issues quickly Safety during faults Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life Upto 4 units parallel capacity for redundancy & load expansion Enhanced service life Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage 	<p>High Reliability</p>
<ul style="list-style-type: none"> Transformerless Design Optimal performance with Output Unity Power Factor Automatic Power Factor Correction @ Input for PF up to 0.99 Less Thermal Load Compact internal layout 	<ul style="list-style-type: none"> Low Operating Cost - High Efficiency - Upto 95% on Online mode; 98% on Eco mode Maximum utilization of UPS capacity Economical sizing of the upstream network components Better efficiency results in lower heat, saving on Air Conditioning Reduces the floor space. 	<p>Low Total Cost of Ownership (TCO)</p>

KYKRO® EH 11 SERIES 1/1 UPS (6 kVA & 10 kVA)

SPECIFICATION		
MODEL	EH 11 - 06	EH 11 - 10
Rated Capacity	6 kVA / 6 kW	10 kVA / 10 kW
INPUT		
Input Wiring	Single-phase three-wire (1Φ + N + PE)	
Rated Voltage	208 / 220 / 230 / 240 Vac	
Voltage Range	110 ~ 176 Vac (linear derating between 50% & 100% load), 176 ~ 288 Vac (no derating)	
Rated Frequency	50 / 60 Hz (auto-sensing)	
Frequency Range	40 ~ 70 Hz	
Power Factor	≥ 0.99	
Bypass Voltage Range	-40% ~ +15% (settable)	
Total Harmonic Distortion (THDi)	≤ 5%	
OUTPUT		
Output Wiring	Single-phase three-wire (1Φ + N + PE)	
Rated Voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage Regulation	±1%	
Frequency	Synchronized to bypass in mains mode, 50 / 60 Hz ± 0.1% Hz in Battery mode	
Waveform	Sinusoidal	
Power Factor	1	
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest Factor	3:1	
Overload	105% ~ 110% for 10 min, 111% ~ 125% for 1 min, 126% ~ 150% for 30 s	
BATTERIES		
DC Voltage	192 Vdc (192 ~ 240 Vdc settable)	
No. of Batteries	16 pcs (16 ~ 20 selectable)	
Charging Current (max.)	5 A (default), 1 ~ 5 A settable, 12 A (optional)	
Recharge Time	8 hrs depends on capacity of battery	
SYSTEM		
Efficiency	Upto 95% on mains mode, ≥ 98% in ECO mode	
Protections	Short-circuit, Over load, Over temperature, Battery low voltage, Over voltage, Under voltage & Fan Failure	
Max. no. of Parallel Connections	4	
Communications	RS 232 (standard), USB / RS 485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD + LED	
OTHERS		
Operating Temperature	0°C ~ 40°C	
Storage Temperature	-25°C ~ 55°C (without battery)	
Relative Humidity	0% ~ 95% (non-condensing)	
Altitude	≤ 1000 m; derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	≤ 55 dB	≤ 58 dB
Dimensions (W × D × H) (mm)	191 x 465 x 350	191 x 495 x 350
Net Weight (kg)	14.5	16.5

UNMATCHED PERFORMANCE FOR CRITICAL POWER NEEDS



Features

Advantages

Benefits

<ul style="list-style-type: none"> • Wide input voltage range (190 ~ 499 Vac) • Linear load derating for input voltages under 305 V to reduce battery usage • Settable delayed start & Rectifier soft star function • Static bypass mode for Auto switch over during UPS fault 	<ul style="list-style-type: none"> • Maximizes Mains Mode function, reduces Battery usage, extends Battery life • Prevents Generator Overload due to starting inrush current • Seamless transfer, uninterrupted uptime 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> • Frequency range (40 ~ 70 Hz) • Multiple Functions settable • Battery compatibility • Flexible battery configuration • Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> • 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion • Eco Mode, Frequency conversion mode, Output Voltage User selectable 208 / 220 / 230 / 240 V • VRLA / Li-ion Battery compatible • Settable 16 - 20 batteries. • Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> • Online Double conversion with Advanced dual-core DSP control with 3-level topology • Remote monitoring through SNMP • Standard Emergency Power off (EPO) • Advanced Battery Management • Advanced Digital Parallel architecture • Fan speed varies intelligently with temperature • Complete Protection for connected equipment 	<ul style="list-style-type: none"> • Faster and more precise control ($\pm 1\%$ regulation), ensuring stable output power under varying load conditions with better efficiency • Allows to monitor and respond to issues quickly • Safety during faults • Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life • Upto 4 units parallel capacity for redundancy & load expansion • Enhanced service life • Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage 	<p>High Reliability</p>
<ul style="list-style-type: none"> • Transformerless Design • Optimal performance with Output Unity Power Factor • Automatic Power Factor Correction @ Input for PF up to 0.99 • Less Thermal Load • Compact internal layout 	<ul style="list-style-type: none"> • Low Operating Cost - High Efficiency - Upto 95% on Online mode; 98% on Eco mode • Maximum utilization of UPS capacity • Economical sizing of the upstream network components • Better efficiency results in lower heat, saving on Air Conditioning • Reduces the floor space. 	<p>Low Total Cost of Ownership (TCO)</p>

KYKRO® EH 31 SERIES 3/1 UPS (10 kVA & 20 kVA)

SPECIFICATION		
MODEL	EH 31 - 10	EH 31 - 20
Rated Capacity	10 kVA / 10 kW	20 kVA / 20 kW
INPUT		
Input Wiring	Three-phase five-wire (3Φ / 1Φ + N + PE)	
Rated Voltage	380 / 400 / 415 Vac	
Voltage Range	190 ~ 305 Vac (linear derating between 50% and 100% load), 305 Vac ~ 499 Vac (no derating)	
Rated Frequency	50 / 60 Hz (auto-sensing)	
Frequency Range	40 ~ 70 Hz	
Power Factor	≥ 0.99	
Bypass Voltage Range	-40% ~ +15% (settable)	
Total Harmonic Distortion (THDi)	≤ 5%	
OUTPUT		
Output Wiring	Single-phase three-wire (1Φ + N + PE)	
Rated Voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage Regulation	±1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60Hz ± 0.1Hz in Battery mode	
Waveform	Sinusoidal	
Power Factor	1	
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)	
Crest Factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s	
BATTERIES		
DC Voltage	192 Vdc (192 ~ 240 Vdc settable)	
No. of Batteries	16 pcs (16 ~ 20 selectable)	
Charging Current (max.)	5 A (default), 1 ~ 5 A selectable; 10 A (optional)	
Recharge Time	8 hrs depends on capacity of battery	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in Eco mode	
Protections	Short-circuit, Over load, Over temperature, Battery low voltage, Over voltage, Under voltage & Fan Failure	
Max. no. of Parallel Connections	4	
Communications	Standard configuration: RS 232; Optional configuration: SNMP, RS 485, dry contacts, Battery Temperature compensation	
Display	LCD + LED	
OTHERS		
Operating Temperature	0° C ~ 40° C	
Storage Temperature	-25° C ~ 55° C (without battery)	
Relative Humidity	0% ~ 95% (non-condensing)	
Altitude	≤ 1000 m; derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1m	≤ 58 dB	
Dimensions (W × D × H) (mm)	191 x 495 x 350	191 x 495 x 515
Net Weight (kg)	18.5	26.5

HIGH-FREQUENCY DESIGN FOR MAXIMUM EFFICIENCY



Features

Advantages

Benefits

<ul style="list-style-type: none"> • Wide input voltage range (228 ~ 478 Vac) • Linear load derating for input voltages under 304 V to reduce battery usage • Settable delayed start & Rectifier soft star function • Static bypass mode for Auto switch over during UPS fault 	<ul style="list-style-type: none"> • Maximizes Mains Mode function, reduces Battery usage, extends Battery life • Prevents Generator Overload due to starting inrush current • Seamless transfer, uninterrupted uptime 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> • Frequency range (40 ~ 70 Hz) • Multiple Functions settable • Battery compatibility • Flexible battery configuration • Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> • 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion • Eco Mode, Frequency conversion mode, Output Voltage User selectable 380 / 400 / 415 V • VRLA / Li-ion Battery compatible • Settable 32 - 40 batteries. • Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> • Online Double conversion with Advanced dual-core DSP control with 3-level topology • Remote monitoring through SNMP • Standard Emergency Power off (EPO) • Advanced Battery Management • Advanced Digital Parallel architecture • Fan speed varies intelligently with temperature • Complete Protection for connected equipment 	<ul style="list-style-type: none"> • Faster and more precise control ($\pm 1\%$ regulation), ensuring stable output power under varying load conditions with better efficiency • Allows to monitor and respond to issues quickly • Safety during faults • Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life • Upto 4 units parallel capacity for redundancy & load expansion • Enhanced service life • Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage 	<p>High Reliability</p>
<ul style="list-style-type: none"> • Transformerless Design • Optimal performance with Output Unity Power Factor • Automatic Power Factor Correction @ Input for PF up to 0.99 • Less Thermal Load • Compact internal layout 	<ul style="list-style-type: none"> • Low Operating Cost - High Efficiency - Upto 95% on Online mode; 98% on Eco mode • Maximum utilization of UPS capacity • Economical sizing of the upstream network components • Better efficiency results in lower heat, saving on Air Conditioning • Reduces the floor space. 	<p>Low Total Cost of Ownership (TCO)</p>

KRYKARD EH 33 SERIES 3/3 UPS (10 kVA to 60 kVA)

SPECIFICATION

MODEL	EH - 10	EH - 20	EH - 30	EH - 40	EH - 60
Rated Capacity	10 kVA / 10 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT					
Input Wiring	Three-phase five wire (3Φ + N + PE)				
Rated Voltage	380 / 400 / 415 Vac				
Voltage Range	304 - 478 Vac, full load 228V - 304 Vac, load decrease linearly according to the min phase voltage				
Rated Frequency	50 / 60 Hz (auto-sensing)				
Frequency Range	40 ~ 70 Hz				
Power Factor	> 0.99				
Bypass Voltage Range	Selectable, default -20%- +15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%				
Total Harmonic Distortion (THDi)	< 1% (linear load); 3% (non-linear load)				
OUTPUT					
Output Wiring	Three-phase five wire (3Φ + N + PE)				
Rated Voltage	380 / 400 / 415 Vac				
Voltage Regulation	± 1% (linear load)				
Frequency	Synchronized with utility in mains mode, 50 / 60Hz ± 0.1Hz in battery mode				
Waveform	Sinusoidal				
Power Factor	1				
Total Harmonic Distortion (THDv)	< 1% (linear load); < 3% (non-linear load)				
Crest Factor	3:1				
Overload	< 110% for 60 mins, 110% ~ 125% for 10 mins, 125% ~150% for 1 min; > 150%, 200 ms				
BATTERIES					
DC Voltage	± 240 VDC				
No. of Batteries	32 pcs (32 ~ 40 pcs selectable)				
Charging Current (max.)	10 A Max		15 A Max		20 A Max
Recharge Time	6 - 8 hours depend on the capacity of battery				
SYSTEM					
Efficiency	Upto 96% Online mode / Upto 98% ECO mode				
Transfer Time	0 ms				
Protections	Short-circuit, Over load, Over Temp, Low Battery, Over Voltage, Under Voltage, Fan Failure				
Max. no. of Parallel Connections	4				
Communications	Standard configuration: RS232, USB, RS484, NET, dry contacts; Optional configuration; SNMP card, Wi-Fi card, GPRS card				
Display	5 inches touch screen				
OTHERS					
Operating Temperature	0° C ~ 40° C				
Storage Temperature	- 40° C ~ 70° C				
Relative Humidity	0~ 95% (non-condensing)				
Altitude	< 1000 m, load derated 1 % per 100 m from 1000 ~ 2000 m				
IP rating	IP 20				
Noise level at 1 m	58 dB Max			62 dB Max	
Dimensions (W × D × H) (mm)	250 x 720 x 560	250 x 720 x 560	250 x 840 x 650	250 x 720 x 560	250 x 790 x 560
Net Weight (kg)	31	33	42	42	48

THE HIGH-FREQUENCY TRANSFORMER-LESS STATIC CONVERTER UPS



Features

Advantages

Benefits

<ul style="list-style-type: none"> • Wide input voltage range (228 ~ 478 Vac) • Linear load derating for input voltages under 304 V to reduce battery usage • Settable delayed start & Rectifier soft star function • Static bypass mode for Auto switch over during UPS fault 	<ul style="list-style-type: none"> • Maximizes Mains Mode function, reduces Battery usage, extends Battery life • Prevents Generator Overload due to starting inrush current • Seamless transfer, uninterrupted uptime 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> • Frequency range (40 ~ 70 Hz) • Multiple Functions settable • Battery compatibility • Flexible battery configuration • Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> • 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion • Eco Mode, Frequency conversion mode, Output Voltage User selectable 380 / 400 / 415 V • VRLA / Li-ion Battery compatible • Settable 32 - 40 batteries. • Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> • Online Double conversion with Advanced dual-core DSP control with 3-level topology • Remote monitoring through SNMP • Standard Emergency Power off (EPO) • Advanced Battery Management • Advanced Digital Parallel architecture • Fan speed varies intelligently with temperature • Complete Protection for connected equipment 	<ul style="list-style-type: none"> • Faster and more precise control ($\pm 1\%$ regulation), ensuring stable output power under varying load conditions with better efficiency • Allows to monitor and respond to issues quickly • Safety during faults • Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life • Upto 4 units parallel capacity for redundancy & load expansion • Enhanced service life • Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage 	<p>High Reliability</p>
<ul style="list-style-type: none"> • Transformerless Design • Optimal performance with Output Unity Power Factor • Automatic Power Factor Correction @ Input for PF up to 0.99 • Less Thermal Load • Compact internal layout 	<ul style="list-style-type: none"> • Low Operating Cost - High Efficiency - Upto 96% on Online mode; 98.5% on Eco mode • Maximum utilization of UPS capacity • Economical sizing of the upstream network components • Better efficiency results in lower heat, saving on Air Conditioning • Reduces the floor space. 	<p>Low Total Cost of Ownership (TCO)</p>

KRYKARD EH 33 SERIES 3/3 UPS (80 kVA to 200 kVA)

SPECIFICATION					
MODEL	EH - 80	EH - 100	EH - 120	EH - 160	EH - 200
Rated Capacity	80 kVA / 80 kW	100 kVA / 100 kW	120 kVA / 120 kW	160 kVA / 160 kW	200 kVA / 200kW
INPUT					
Input Wiring	Three-phase five-wire (3Φ + N + PE)				
Rated Voltage	380 / 400 / 415 Vac				
Voltage Range	304 – 478 Vac, full load 228 V to 304 VAC, load decrease linearly according to the min phase voltage				
Rated Frequency	50 / 60 Hz (auto-sensing)				
Frequency Range	40 ~ 70 Hz				
Power Factor	≥ 0.99				
Bypass Voltage Range	Selectable, default -20% to +15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%				
Total Harmonic Distortion (THDi)	≤ 3%				
OUTPUT					
Output Wiring	Three-phase five wire (3Φ + N + PE)				
Rated Voltage	380 / 400 / 415 Vac				
Voltage Regulation	±1% (linear load)				
Frequency	Synchronized with utility in mains mode, 50 / 60Hz ± 0.1 Hz in battery mode				
Waveform	Sinusoidal				
Power Factor	1				
Total Harmonic Distortion (THDv)	< 1% (full linear load); < 3% (full non-linear load)				
Crest Factor	3:1				
Overload	<110 %, 60min; 110% -125%, 10min; 125%-150%, 1min; >150 %, 200ms				
BATTERIES					
DC Voltage	± 240 Vdc				
No. of Batteries	40 pcs (32 - 40 selectable)				
Charging Current (max)	30 A		40 A		60 A
Recharge Time	Depends on capacity of battery				
SYSTEM					
Efficiency	96%				
Transfer Time	0 ms				
Protections	Short-circuit, Over load, Over Temp, Low Battery, Over Voltage, Under Voltage, Fan Failure				
Max. no. of Parallel Connections	4				
Communications	Standard configuration: RS232, USB, RS485, NET, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card				
Display	5 inches touch screen				7 inch touch screen
OTHERS					
Operating Temperature	0° C ~ 40° C				
Storage Temperature	-40° C ~ 70° C				
Relative Humidity	0% ~ 95% (non-condensing)				
Altitude	< 1000 m, load derated 1 % per 100m from 1000 to 2000 m				
IP rating	IP 20				
Noise level at 1 m	< 70 dB				
Dimensions (W × D × H) (mm)	360 × 800 × 1200		360 x 850 x 1200		440 × 850 x 1250
Net Weight (kg)	152	156	160	194	200

ONLINE DOUBLE CONVERSION WITH INBUILT ISOLATION TRANSFORMER



Features

Advantages

Benefits

<ul style="list-style-type: none"> Wide input voltage range (285 ~ 475 Vac) Settable delayed start & Rectifier soft star function Intelligent self diagnosing function Static bypass mode for Auto switch over during UPS fault Low MTTR <0.5 	<ul style="list-style-type: none"> Maximizes Mains Mode function, reduces Battery usage, extends Battery life Prevents Generator Overload due to starting inrush current Quick resolution for high TAT Seamless transfer, uninterrupted uptime Higher uptime enhances system availability for critical application 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> Frequency range (50 ~ 60 Hz \pm 5Hz) Multiple Functions settable Battery compatibility Unbalanced Load compatible Flexible battery configuration Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion Eco Mode, Frequency conversion mode, Output Voltage User selectable 380 / 400 / 415 V VRLA / Li-ion / Ni-cad Battery compatible Efficient operation even with 100% Unbalanced Load Settable 28 - 32 batteries. Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> High MTBF > 2,00,000 hours Online Double conversion with Advanced dual-core DSP technology Remote monitoring through SNMP Standard Emergency Power off (EPO) Advanced Battery Management Advanced Digital Parallel architecture Fan speed varies intelligently with temperature Complete Protection for connected equipment Inbuilt Galvanic Isolation Transformer 	<ul style="list-style-type: none"> Faster and more precise control (\pm1% regulation), ensuring stable output power under varying load conditions with better efficiency Allows to monitor and respond to issues quickly Safety during faults Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life Upto 6 units parallel capacity for redundancy & load expansion Enhanced service life Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage Complete Isolation between Input & Output for Safety & Reliability 	<p>High Reliability</p>
<ul style="list-style-type: none"> Low Operating Cost Optimal performance with Output Unity Power Factor Less Thermal Load Compact internal layout 	<ul style="list-style-type: none"> High Efficiency - Upto 93% on Online mode; 98% on Eco mode Maximum utilization of UPS capacity Better efficiency results in lower heat, saving on Air Conditioning Reduces the floor space. 	<p>Low Total Cost of Ownership (TCO)</p>

KRYKARD SX SERIES 3/3 UPS (10 kVA to 120 kVA)

SPECIFICATION

MODEL	SX - 10	SX - 20	SX - 30	SX - 40	SX - 60	SX - 80	SX - 100	SX - 120
Rated Capacity	10 kVA / 9 kW	20 kVA / 18 kW	30 kVA / 27 kW	40 kVA / 36 kW	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW
INPUT								
Input Wiring	Three-phase five-wire (3Φ + N + PE)							
Rated Voltage	380 / 400 / 415 Vac							
Voltage Range	285 V - 475 V							
Rated Frequency	50 / 60 Hz							
Frequency Range	50 / 60 Hz ±5 Hz							
Bypass Voltage Range	±20% (settable)							
Delayed start of Rectifier	1~ 300s (settable via display panel)							
OUTPUT								
Output Wiring	Three-phase five-wire (3Φ + N + PE)							
Rated Voltage	380 / 400 / 415 Vac							
Voltage Regulation	±1%							
Frequency	Synchronized with utility in mains mode; 50 / 60 Hz ±0.1% in battery mode							
Waveform	Sinusoidal							
Power Factor	0.9							
Crest Factor	3:1							
Total Harmonic Distortion (THDv)	= ≤ 1% (linear load); = ≤ 5% (non-linear load)							
Transfer Time	0ms in AC mode to Battery mode; 0 ms in Inverter mode to Bypass mode							
Inverter Overload Capability	105% Continuous, 105% ~ 110% for 60 min, 111% ~ 125% for 10 min							
BATTERIES								
DC Voltage	12 V x configured battery number (settable via display panel), VRLA, Lithium-ion batteries							
No. of Batteries	32 pcs (28 ~ 32 selectable)							
Charging Current	Settable as per battery capacity							
Charging	Three - stage charging, auto switch floating / equalizing charge							
Battery Self-Test	Settable periodic self-test; manually configurable test time and voltage							
SYSTEM								
Efficiency	Up to 93% in Online mode, ≥ 98% in ECO mode							
Max. no. of Parallel Connections	6							
Protections	Short-circuit, Over load, Over temperature, Low battery, Over voltage, Under voltage & Fan Failure							
Communications	Standard configuration: RS 232, RS 485, Dry contacts Optional configuration: SNMP							
IP rating	IP 20							
Display	7 inches LCD touch screen							
OTHERS								
Operating Temperature	0° C ~ 40° C							
Storage Temperature	-25° C ~ 55° C (without battery)							
Relative Humidity	0% ~95% (non-condensing)							
Noise level at 1m	65 dB				65 dB		65 dB	
Dimensions (W × D × H) (mm)	400 x 800 x 1100				600 x 700 x 1500		700 x 800 x 1700	
Net Weight (kg)	158	175	210	260	460	590	630	690

ONLINE DOUBLE CONVERSION WITH INBUILT ISOLATION TRANSFORMER TO HANDLE CHALLENGING AND REGENERATIVE LOADS



Features

Advantages

Benefits

<ul style="list-style-type: none"> • Wide input voltage range (265 ~ 460 Vac) • Linear load derating for input voltages under 360 V to reduce battery usage • Settable delayed start & Rectifier soft star function • Intelligent self diagnosing function • Static bypass mode for Auto switch over during UPS fault • Low MTTR <0.5 	<ul style="list-style-type: none"> • Maximizes Mains Mode function, reduces Battery usage, extends Battery life • Prevents Generator Overload due to starting inrush current • Quick resolution for high TAT • Seamless transfer, uninterrupted uptime • Higher uptime enhances system availability for critical application 	<p>High Uptime / Availability</p>
<ul style="list-style-type: none"> • Frequency range (40 ~ 70 Hz) • Multiple Functions settable • Battery compatibility • Unbalanced Load compatible • Flexible battery configuration • Strong mixed load capacity & high over load capacity 	<ul style="list-style-type: none"> • 50 / 60 Hz Compatible & 60 / 50 Hz frequency conversion • Eco Mode, Frequency conversion mode, Output Voltage User selectable 380 / 400 / 415 V • VRLA / Li-ion / Ni-cad Battery compatible • Efficient operation even with 100% Unbalanced Load • Settable 48 - 52 batteries. • Ensures seamless operation across diverse applications 	<p>High Flexibility</p>
<ul style="list-style-type: none"> • High MTBF > 2,00,000 hours • Online Double conversion with Advanced dual-core DSP technology with IGBT Rectifier • Remote monitoring through SNMP • Standard Emergency Power off (EPO) • Advanced Battery Management • Advanced Digital Parallel architecture • Fan speed varies intelligently with temperature • Complete Protection for connected equipment • Inbuilt Galvanic Isolation Transformer 	<ul style="list-style-type: none"> • Faster and more precise control ($\pm 1\%$ regulation), ensuring stable output power under varying load conditions with better efficiency • Allows to monitor and respond to issues quickly • Safety during faults • Improves Battery health offering predictable Power Back up. Enhances battery life time and also alert for Battery end of life • Upto 6 units parallel capacity for redundancy & load expansion • Enhanced service life • Protection against Short-circuit, Overload, Over Temperature, Over Voltage, Under Voltage, Fan Failure, Battery Low Voltage • Complete Isolation between Input & Output for Safety & Reliability 	<p>High Reliability</p>
<ul style="list-style-type: none"> • Low Operating Cost • Optimal performance with Output Unity Power Factor • Input for PF up to 0.99 • Less Thermal Load • Compact internal layout 	<ul style="list-style-type: none"> • High Efficiency - Upto 94% on Online mode; 98% on Eco mode • Maximum utilization of UPS capacity • Economical sizing of the upstream network components • Better efficiency results in lower heat, saving on Air Conditioning • Reduces the floor space 	<p>Low Total Cost of Ownership (TCO)</p>

KRYKARD HX SERIES 3/3 UPS (40 kVA to 300 kVA)

SPECIFICATION									
MODEL	HX - 40	HX - 60	HX - 80	HX - 100	HX - 120	HX - 160	HX - 200	HX - 250	HX - 300
Rated Capacity	40 kVA / 36 kW	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	160 kVA / 144 kW	200 kVA / 180 kW	250 kVA / 225 kW	300 kVA / 270 kW
INPUT									
Input Wiring	Three-phase five-wire (3Φ + N + PE)								
Rated Voltage	380 / 400 / 415 Vac								
Voltage Range	360 ~ 460 Vac (non - derating), 260 ~ 360 Vac (linear derating between 70% ~ 100% load)					304 - 346 V (derating 10%), 346 - 456 V (full load)			
Rated Frequency	50 / 60 Hz								
Frequency Range	50 / 60 Hz ± 5 Hz								
Power factor	≥ 0.99								
Delayed start of Rectifier	10 s (1 ~ 300 settable)								
Bypass Voltage Range	± 20% (settable)								
OUTPUT									
Output Wiring	Three-phase five-wire (3Φ + N + PE)								
Rated Voltage	380 / 400 / 415 Vac								
Voltage Regulation	±1%								
Frequency	50 / 60 Hz ± 0.1% in battery mode								
Waveform	Sinusoidal								
Crest Factor	3:1								
Total Harmonic Distortion(THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)								
Inverter Overload Capability	105% ~ 110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200ms								
BATTERIES									
DC Voltage	360 Vdc		600 Vdc						
No. of Batteries	30 pcs (29 - 40 selectable)		50 pcs (48 - 52 selectable)						
Charging Current	Charging rate (settable) x battery capacity (settable) x number of battery group (settable)								
Battery Self-Test	Settable periodic self - test; manually configurable test time and voltage								
SYSTEM									
Efficiency	≥ 92% in Line mode ≥ 97% in ECO mode					≥ 94% in Line mode ≥ 98% in ECO mode			
Max. no. of Parallel Connections	6								
Protections	Short - circuit, Over load, Over temperature, Battery low voltage, Over voltage, Under voltage, Fan failure								
Communications	Standard configuration: RS 232, RS 485, Dry contacts Optional configuration: SNMP								
IP rating	IP 30		IP 20						
Display	7 inches LCD touch screen								
OTHERS									
Operating Temperature	0° C ~ 40° C								
Storage Temperature	-25° C ~ 55° C (without battery)								
Relative Humidity	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m; derating 1% for each additional 100 m				≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m				
Noise level at 1m	≤ 65 dB								
Dimensions (W × D × H) (mm)	600 x 600 x 1600	800 x 600 x 1800	800 x 800 x 1800			800 x 860 x 1700	1210 x 860 x 1950		
Net Weight (kg)	340	430	580	630	680	790	1135	1275	1355







SOME OF OUR ESTEEMED CLIENTS







OUR CORPORATE CERTIFICATIONS

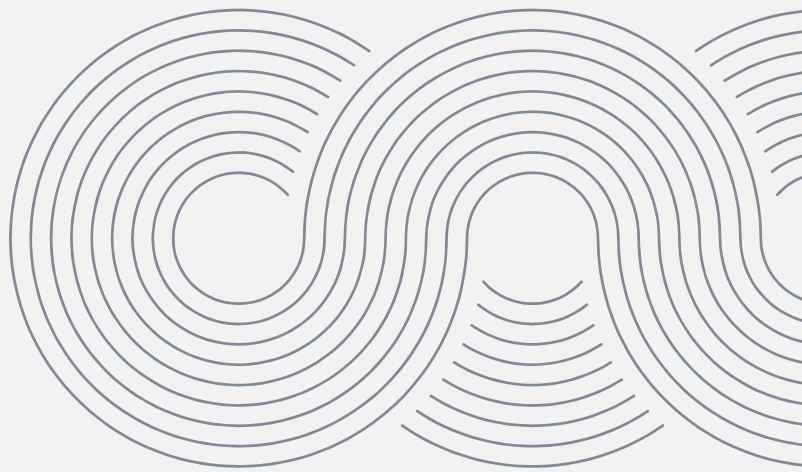
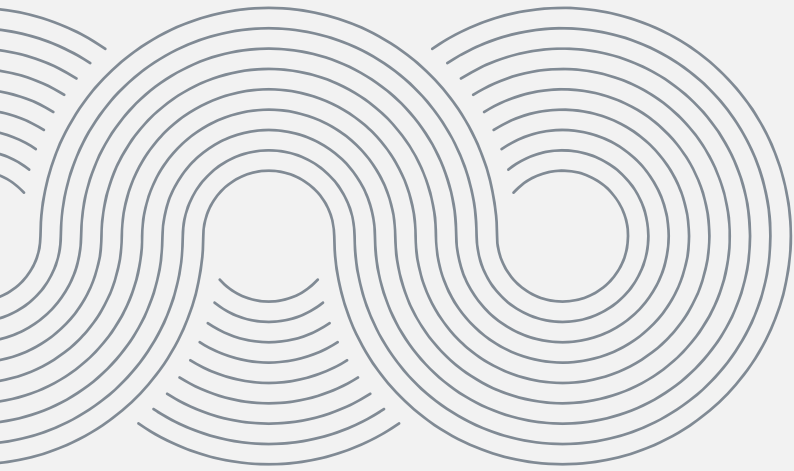
					
ISO 9001:2015		ISO 45001:2018		ISO 14001:2015	

OUR PRODUCTS TESTED BY

					
BIS		CE		TUV	

			
RITES		ETDC	

*Some of the certifications are applicable / available for select products / models



KRYKARDSM Care



Extensive spare parts warehouses strategically located in multiple regions



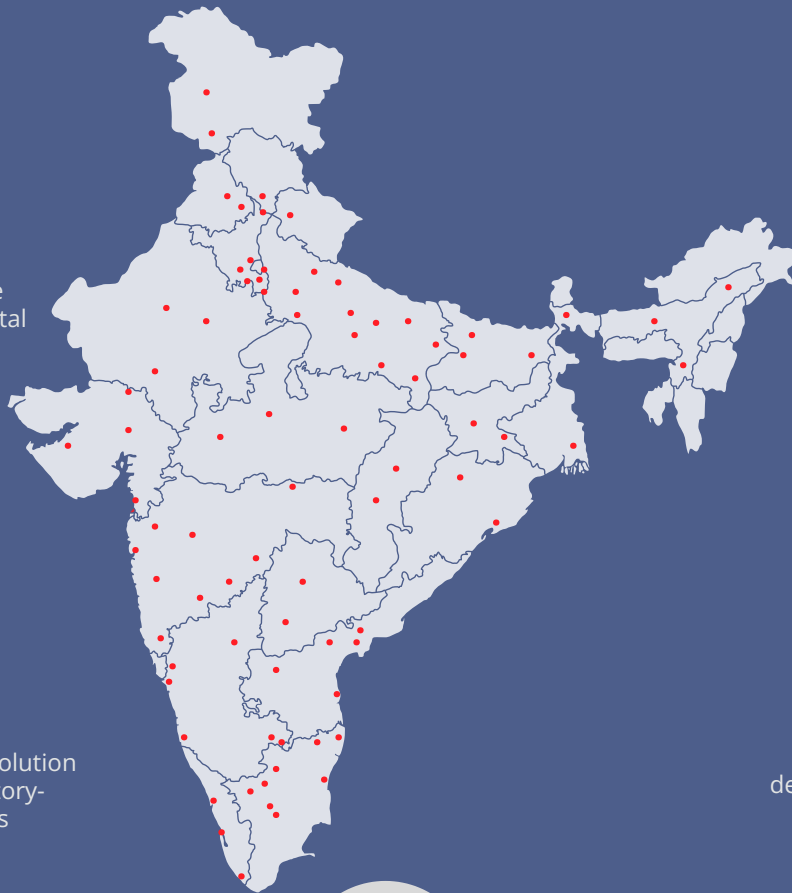
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