

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 × 850 × 1200		440 × 850 × 1250
Net Weight (kg)	152	156	160	194	200