

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