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

RELIABLE POWER SOLUTIONS FOR UNINTERRUPTED PERFORMANCE

Features	Advantages	Benefits
• 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	• Maximizes Mains Mode function, reduces Battery usage, extends Battery life • Prevents Generator Overload due to starting inrush current • Seamless transfer, uninterrupted uptime	High Uptime / Availability
• Frequency range (40 ~ 70 Hz) • Multiple Functions settable • Strong mixed load capacity & high over load capacity	• 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	High Flexibility
• 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	• Faster and more precise control (±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	High Reliability
• Transformerless Design • Automatic Power Factor Correction @ Input for PF up to 0.99 • Less Thermal Load	• 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	Low Total Cost oF Ownership (TCO)

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 (1Φ + 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)	≤ 5%				
OUTPUT					
Output Wiring	Single - phase Three - wire (1Φ + N + PE)				
Rated Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)				
Voltage Regulation	±1%				
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1% Hz (battery mode)				
Waveform	Sinusoidal				
Power Factor	1.0		0.9		
Total Harmonic Distortion (THDv)	≤ 2% (linear load); ≤ 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	≥ 93.5% (Mains mode) ≥ 89.2% (Battery mode) ≥ 97.5% (ECO mode)	≥ 94.6% (Mains mode) ≥ 92.5% (Battery mode) ≥ 98.5% (ECO mode)	≥ 90% (Mains mode) ≥ 85% (Battery mode), ≥ 95% (ECO mode)	≥ 92% (Mains mode) ≥ 87% (Battery mode) ≥ 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 × D × 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	