

Aegis Lio Series 1~3kVA 1 phase Rack/Tower UPS

- High frequency on-line double conversion
- DSP (Digital signal processors) control
- Active input power factor correction 0.99
- Long battery lifecycle, more than 2000
- Generator compatible
- Cold start & Economic operation mode (ECO)
- Wide input voltage range 90V~300V and frequency range 40~70Hz
- 50Hz / 60Hz Frequency auto sensing
- Frequency converter mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output.
- Li-ion battery provide up to 3x backup time, comparing with regular Lead-acid UPS product
- Dry contact interface for BMS dominant control
- Incorporated MODBUS (RS485) interface with BMS
- Li-ion Battery Charger : Constant current , constant voltage, floating, turn-off 4 state charger for Li-ion
- battery, open to customize the logical behavior for customer- specified battery pack



Tower Model		Aegis Lio 1K		Aegis Lio 1KL		Aegis Lio 2K		Aegis Lio 2KL		Aegis Lio 3K		Aegis Lio 3KL	
Rack Model		Aegis Lio 1KR		Aegis Lio 1KRL		Aegis Lio 2KR		Aegis Lio 2KRL		Aegis Lio 3KR		Aegis Lio 3KRL	
Rate Power		1kVA/900W				2kVA/1.8KW				3kVA/2.7KW			
Main input	Wiring	L/N+PE											
	Rated Voltage	208/220/230/240VAC											
	Voltage Range	90~300VAC											
	Frequency Range	40Hz~70Hz											
	Input Power Factor	≥0.99											
Main output	Wiring	L/N+PE											
	Output Voltage	208/220/230/240VAC											
	Voltage Regulation	±1%											
	Output Frequency	50/60±4Hz(Syncmode);50/60Hz±0.1%(Free run)											
	Waveform	Pure sine wave											
	Distortion(THDV%)	<2%(Linear load); <7%(Non-Linear load)											
	Overload Capability	100%~105%continuous; 60Sec.@105%~130%rated load; 10Sec.@130%~150%rated load; 0.3Sec.@>150%rated load											
Efficiency	Line Mode	88%				89%				90%			
	Battery Mode	86%				87%				88%			
Battery & Charger	Rated Bat. Voltage	48VDC (default for 15cell of LiFePO4)											
	Battery Capacity	600WH	External battery depends		1000WH	External battery depends		1000WH	External battery depends				
	Backup Time	>40mins @ half load			>30mins @ half load			>20mins @ half load					
	Charging Current	4A/8A											
	Charging Voltage	52.8V(default for 15cell of LiFePO4) / Customized according to battery request											
	Charger Behavior & Protection	CC. CV. floating, turn-off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface											
HMI	LED Display	Mains / battery status, load level, battery level, operation mode											
	LCD Display with LED Indicator	Input mains voltage, frequency, load level, operation mode, health status											
	Standards Communication Interface	(1) RS232 port (2) Network card: support SNMP,TCP/IP protocol , for remote monitor the UPS via smart phone APP, web page, PC monitor software, support server / NAS shutdown (3) Dry contact interface for BMS control (4) MODBUS For BMS interface											
Environment	Temperature Range	-10°C to 50°C											
	Relative Humidity	0-98% (Non-condensing)											
	Acoustics Noise	<55dB @ 1 meters											
Dimension (W*D*H) mm	Tower Dimension	C1K: 190x378x318				C2K: 190x427x318				C3K: 190x427x318			
		C1KS: 145x397x220				C2KS: 145x397x220				C3KS: 190x378x318			
	Rack Dimension	R1K: 440x400x88 (2U)				R2K: 440x500x88 (2U)				R3K: 440x650x88 (2U)			
		R1KS: 440x400x88 (2U)				R2KS: 440x400x88 (2U)				R3KS: 440x400x88 (2U)			
Tower N.W (KG)		10.8	5	16.5	5.5	18	7.9						
Rack N.W (KG)		12.5	6.5	21.6	6.8	24.5	8.2						

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