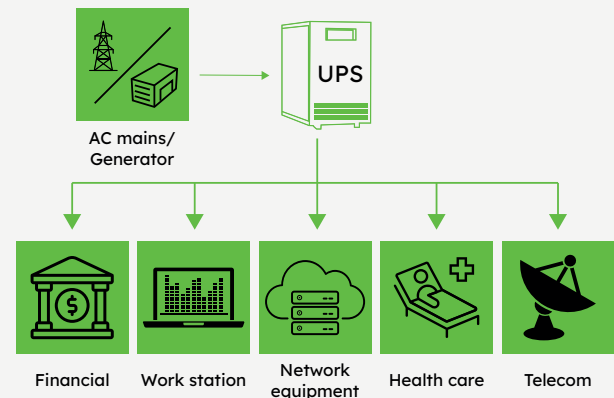# LYRA E-CONNECT Li-Ion RT

Key features

- Maximum output power factor is 1, VA=W
- Up to 94% leading efficiency.
- Level 3 Built-in lithium battery, synchronization with UPS
- (Capacity, health, behavior, external balancing)
- Extended backup time with up to 4-6 optional EBMs, with
- automatic detection
- Compact design: 2U UPS+ 1U EBM
- Rack/tower dual set-up with rotatable LCD panel
- USB, RS232 port, dry contacts, RPO & ROO connectors,
- optional SNMP
- Built-in Ethernet port for cloud connection
- Certification: CE, UN38.3, IEC62019, UL1973(PACK).

AC mains/ Generator

UPS

Financial Work station Network equipment Health care Telecom

Rear panel

UPS

1000 VA-1500 VA

2000 VA

3000 VA

EXB

EXB 48VDC

EXB 76.8VDC

EXB 76.8VDC

LYRA E-Connect Li-Ion UPS Advantage

Key Features	LYRA E-Connect RT Li-Ion 1-3KVA UPS	Advanced features compared to competitive product	Customer benefits
PF	1	11% more power than competitive offer	Supports 11% more load
EFFICIENCY	up to 94%	2% higher efficiency than competitive offer	Save more electricity expense
ADVANCE ABM AND LI-ION BATTERY PACK	Level 3 ABM synchronization with UPS (Pre-alarm capacity / health prediction, Multi level protection, etc.)	1. Safety/reliability improved 30%. 2. Prediction to reduce downtime lost 20%.	1. More charge discharge cycle and longer life, to save 1 time battery replacement (battery expense and service saving) 2. Reduce 1 time downtime lost and MTBF. 3. Reduce potential safety risk.
	Advance internal cell / pack / EXB balancing and protection.	1. Ensure backup time and eliminate abnormal downtime lost. 2. Ensure battery cell/pack life.	
	All-in-One design with auto addressing 1U Li-ion EXB.	1. Space saving. 2. Easy confi guration for start up and service.	1. Space saving 50% (1U) for Capex reduction (compared with normal 2U offer) 2. Reduce start up time and MTBF around 10 mins.

Online

Product specifications are subject to change without prior notice

LYRA E-CONNECT Li-Ion RT
Selection guide

MODEL	E-Connect RT2U 1000	E-Connect RT2U 1500	E-Connect RT2U 2000	E-Connect RT2U 3000
Power Rating (VA / Watt)	1000VA/1000W	1500VA/1500W	2000VA/2000W	3000VA/3000W
EFFICIENCY				
Line mode	up to 91.3%	up to 92.1%	up to 93.8%	up to 94%
ECO mode	up to 97.1%	up to 98.2%	up to 97.8%	up to 98.4%
INPUT PERFORMANCE				
Voltage range	160-300V 100% load, 110-160V derating to 50% load linearly			
Rated frequency	50Hz/60Hz			
Frequency Range	40Hz-70Hz (45Hz-55Hz, 54Hz-66Hz @ load>60%)			
PF	>0.99			
THDI	<5.5%		<5%	
INPUT CONNECTION (Socket RT)	**1x IEC C14**		**1x IEC C20**	
OUTPUT PERFORMANCE				
Rated voltage	200/208/220/230/240 VAC (derating 10% at 208V, derating 20% at 200V)			
Rated frequency	50Hz/60Hz			
Maximum PF	PF = 1			
Voltage accuracy	± 1%			
THDv	<1% linear load; <4% nonlinear load			
Transfer time	0ms@line <-> battery; 4ms @ line <-> bypass; 10ms @ ECO <->Inve rter			
Crest Ratio	max 3:1			
Overload	100%<load≤105% continuous, 105%< load ≤125% for 5 minutes 125<load≤150% for 30 seconds, >150% for 500ms			
OUTPUT CONNECTION				
Socket	1 main outlet group (with 4 x IEC C13) 1 programmable outlet group (with 4 x IEC C13) 240VDC (192-240VDC adjustable)			1 main outlet group (with 1 x IEC C19 + 4 x IEC C13) 1 programmable outlet group (with 4 x IEC C13)
Load segment control	1 programmable load segment control			
BATTERY (EUROBAT 6-9)				
Voltage	48VDC		76.8VDC	
Capacity(AH)	9Ah			
Material	Lithium-Ion (LiFePO4)			
MAXIMUM EXB QUANTITY	6			
CHARGER				
Charging method	BMS			
Charging current	1.5A			
Recharging time	3.6h to 90%		4.6h to 90%	
OTHER MODE				
CVCF	Yes (derating to 60% load)			

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MODEL	E-Connect RT2U 1000	E-Connect RT2U 1500	E-Connect RT2U 2000	E-Connect RT2U 3000
HMI				
Display	Dot matrix LCD (optional segment LCD)			
Language	Multi-Language			
USB	USB 2.0 with HID power device			
RS232	Yes (DB9)			
Dry in/out	1 programmable dry in; 1 programmable dry out			
RPO	Yes			
Intelligent slot	Yes			
Network card	Optional			
Modbus card	Optional			
Dry contactor card	Optional			
Wireless module	Optional			
IOT Ethernet port	RJ45			
Monitor software	Winpower, Winpower View APP			
PHYSICAL PERFORMANCE				
Dimension (W*D*H)mm	438*445*85.5(2U)		438*600*85.5(2U)	
IP protection level	IP20			
Plug solid	Optional			
Wheel	No			
Environment				
Capacity(AH)	0-40ºC			
Capacity(AH)	0 to 40°C (32 to 104°F) with batteries & -25 to 55°C (5 to 140°F) without batteries			
Capacity(AH)	0-95%			
Capacity(AH)	0~3000m (the load derating 1 % every up 100m @1000~3000m)			
Capacity(AH)	<45dB at front 1m		<50dB at front 1m	
CERTIFICATION				
UPS	CE/CB, IEC62040, UN38.3, UL1973 compliant (Pack)			
EXB	IEC62619, UN38.3, UL1973 compliant			
EMI				
Conduction / Radiation	C2			
EMS				
ESD	IEC/EN 61000-4-2			
RS	IEC/EN 61000-4-3			
EFT	IEC/EN 61000-4-4			
Surge	IEC/EN 61000-4-5			
NEXT PART NUMBERS				
Lyra E-Connect Li-Ion RT	77211	77212	77213	77214
LYRA E-Connect Li-Ion EXB RT (Battery Extension)	66024		66025	
SNMP/Web Interface	99007			

Online

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