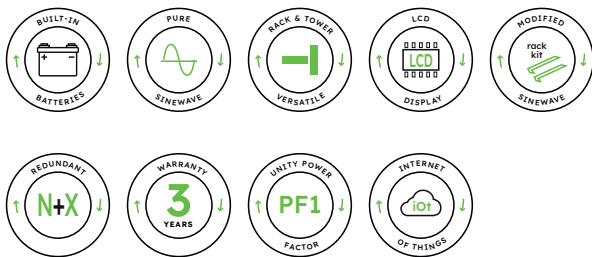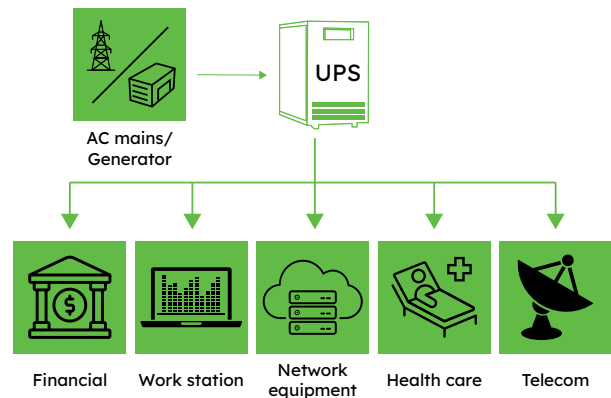# LYRA E-Connect RT 3:3 NETPACK

- Programmable outlet group will extend back up time for most critical equipment (10-20K need PDU model)
- Automatic detect additional EXB quantity will simplify EXB installation for IT users
- Low audible noise at typical load
- Compact size requiring small installation space
- Dot matrix LCD support up to 10 languages for easy installation and service.
- 10-20kVA 3-3 model support Color touchable LCD display with gravity sensors
- Embedded Ethernet port solution provide safe network connection to Cloud which will meet the increasing IoT trend
- WLAN module for IoT connection
- Mobile APP for monitoring, configuration. Support Android/iOS
- USB HID enable monitoring on UPS without software installation
- Dry contactor for industrial condition
- Upgraded network card compliance with IEC standard cybersecurity

Key features

- True double-conversion design with high adaptability to harsh mains conditions
- Real PF 1 can provide more power in same space
- High efficiency results in energy saving
- Adjustable charging current and flexible battery configuration
- Optimized changing method to expand battery life time
- 10-20K 3-3 model can be configure as 3-1 or 1-1 model to meet utility and load wiring
- 10-20K 3-3 model can be configure as single source input or dual source input for utility and bypass
- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability

Typical application

AC mains/
Generator

UPS

Financial | Work station | Network equipment | Health care | Telecom

New Full range double conversion UPS

High density, true double conversion on-line power protection for IT (Information technology) and OT (operation technology) applications. Capable of supporting loads from 10 to 20kVA in a rack/tower convertible form with a 9U/15U space.

These latest range of UPS comes with future-proof connectivity design having the capability to connect to cloud seamlessly to allow the monitoring of the UPS online through any internet connected device. To ensure users information is safe and protected, these connectivity is compliant with IEC standard cybersecurity and GDPR regulation.
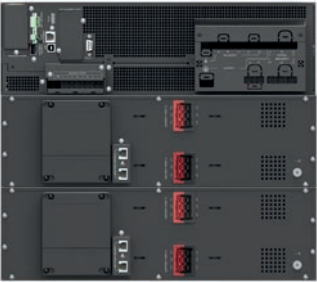
Product rear panel

UPS

10000 VA

EXB

120 VDC

UPS

15000/20000 VA

EXB

240VCD

BYPASS

MPB

Online

3
Phase

LYRA E-Connect RT 3:3 NETPACK
Selection guide

MODEL	Lyra 3:3 E-Connect 10000 RT12U NETPACK	Lyra 3:3 E-Connect 15000 RT15U NETPACK	Lyra 3:3 E-Connect 20000 RT15U NETPACK
Power Rating (VA / Watt)	10000VA/10000W	15000VA/15000W	20000VA/20000W
EFFICIENCY			
Double conversion mode	95%	96%	96%
ECO mode	98%	98.8%	98.8%
INPUT PERFORMANCE			
Voltage range	160-300V (273-520) 100% load, 100-160V (173-273) derating to 50% load linearly		
Rated frequency	50Hz/60Hz		
Frequency Range	40Hz-70Hz(45Hz-55Hz) 54Hz-66Hz @ load>60% and 1 phase in 1 phase out		
PF	>0.995	>0.995	>0.995
THDI	<3% linear load <5% non-linear load	<3% linear load <5% non-linear load	<3% linear load <5% non-linear load
INPUT CONNECTION	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection Dual input for line and bypass		
OUTPUT PERFORMANCE			
Rated voltage	220/230/240V or 380/400/415V		
Rated frequency	50Hz/60Hz		
Maximum PF	1		
Voltage accuracy	± 1%		
THDv	<1% linear load <5% non-linear load		
Transfer time	0ms (2ms @ ECO+ -> Inverter)		
Crest Ratio	max 3:1	max 3:1	max 3:1
Overload	100%<load≤105% continuous 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minute >150% for 500ms		
OUTPUT CONNECTION (Wiring/socket)	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection		
Load Segment Control	Optional (need MBP model)		
BATTERY (EUROBAT 6-9)			
Voltage	240VDC (192-240VDC adjustable)	480VDC (384-480VDC adjustable)	480VDC (384-480VDC adjustable)
Capacity(AH)	2 x 10 x 12V/9Ah, 16-20pcs adjustable	2 x 20 x 12 V/9Ah, 32-40pcs adjustable	2 x 20 x 12 V/9Ah, 32-40pcs adjustable
Backup time Typical value by default battery capacity, PF=1	1.8min 100% load 4.5min 50% load	2.0min 100% load 5.2min 50% load	1.8min 100% load 4.7min 50% load
MAXIMUM CONNECT EXTERNAL BATTERY MODULE QUANTITY	6	6	6
CHARGER			
Charging current	2.0A (0-13A adjustable)	1.4A (0-13A adjustable)	2.0A (0-13A adjustable)
Recharging time	3h to 90%		
OTHER WORKING MODE			
CVCF	Yes (derating to 60% load @ 1 phase in and 1 phase out mode)		
Parallel	Optional (up to 3)		

Product specifications are subject to change without prior notice

MODEL	Lyra 3:3 E-Connect 10000 RT12U NETPACK	Lyra 3:3 E-Connect 15000 RT15U NETPACK	Lyra 3:3 E-Connect 20000 RT15U NETPACK
HMI (HUMAN-MACHINE INTERFACE)			
Display	colour touch LCD (optional Dot matrix LCD)		
Language	10 Languages		
USB	USB 2.0 with HID		
RS232	Yes (DB9)		
Dry in/out	1 programmable dry in; 1 programmable dry out		
EPO	Yes		
Intelligent slot	Yes (for long card)		
Network card	Optional, NMC long card		
Modbus card	Optional, CMC/Modbus Long Card		
Dry contactor card	Optional, AS400 Long Card		
WLAN module	Optional, HDMI type		
Ethernet port for IOT	RJ45		
Monitor software	Winpower		
PHYSICAL PERFORMANCE			
Dimensions (W x D x H) in mm	6U height including 438 x 589 x 129 (power module, 3U) 438 x 593 x 129 (Battery, 3U)	9U height including 438 x 589 x 129 (power module, 3U) 438 x 593 x 129 x 2 (Battery, 6U)	
IP Protection level	IP20		
ENVIRONMENT			
Operating temperature	0-50°C. (Power derating to 50% @40-50°C.)		
Relative Humidity	0-95%		
Operating Altitude	0~4000m (load derating 1% every 100m up @1000~4000m)		
Acoustic Noise	<55dB @ typical load with battery fully charged		
CERTIFICATION	**CE, IEC/EN 62040**		
EMI (Conduction/Radiation)	**C3**	**C3**	**C3**
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		
ACCESSORY			
Maintenance bypass switch	Optional (need MBP model)		
Input power cable	N/A		N/A
Output power cable	N/A		N/A
EXB cable	Yes (in EBM)		Yes (in EBM)
USB cable	Yes		Yes
Tower feet	Yes		Yes
Rack ear	Yes		Yes
RS232 cable	Optional		Optional
Manual	Yes		Yes
NEXT PART NUMBERS			
Lyra E-Connect RT 3:3 NETPACK	77208	77209	77210
LYRA E-Connect RT 3:3 EXB (Battery Extension)	66022	66023	
NEXT Maintenance Contract	Optional		

Product specifications are subject to change without prior notice

Online

3 Phase