LYNX 10/15/20/30/40/60/80/100/120/160/200 kVA

LYNX

- Online double conversion technology with DSP control
- Advanced control with Adaptive Feed Forward Cancellation (AFC) technology for very low harmonic distortion
- Output power factor 0.9
- Very low input current distortion (THDi < 1%)
- Input power factor 0.99 at 10% load
- Output efficiency up to 95%
- Space-saving compact design
- Front access makes maintenance and replacement easily
- Control designed to withstand all kinds of loads
- Parallel redundant operation with up to 4 units
- Variety of communication options available
- 5.7" graphic LCD panel design with multiple languates for easy-configuration
- 2 years NEXT Onsite warranty

• Online double conversion technology with DSP control

Lynx is applied online double conversion technology to effectively insulate against network disturbances and enable higher load uptime. A Digital Signal Processor (DSP) control provides an improved solution with high performance.

• Output power factor 0.9

Lynx is providing output power factor up to 0.9 with higher performance and efficiency.

• Advanced control with Adaptive Feed Forward Cancellation (AFC) technology for very low harmonic distortion

By cancelling input current and output voltage .harmonics, the harmful effects of harmonic injection into the power network is eliminated and it will enhance load integrity.

• Very low input current distortion (THDi < 1%)

AFC cells are used to achieve extremely low distortion values. Low input current distortion rat THDi < 1% at full load and also THDi < 5% with very small load (10% of load). This will avoid the distortion of the electrical network upstream of the UPS, resulting in savings from the optimal use of the cables and protection devices in the electrical network.

• Input power factor 0.99 at 10% load

Lower power losses would result in reduced consumption, lower operation and maintenance costs.

• Output efficiency up to 95%

Applied with DSP controller and the forth generation IGBT transistors, the UPS can achieve high efficiency of up to 95%. It will save consumed energy due to lower heat losses and make a longer lifespan for the critical components of the unit.

• Space-saving compact design

The use of transformerless technology allows a considerable reduction of the weight and volume of the units.

• Over 60% materials recyclable

The UPS uses more than 60% recyclable materials for being more respectful of the environment.

• Front access makes maintenance and replacement easily

An important consideration has been given to allow generous access to the unit's electronic cards and power components. All the boards are accessible by front panel for easily maintenance and replacement.

• Parallel redundant operation with up to 4 units

Up to 4 units in parallel can be operated without additional hardware, to accommodate increases in power demand as well as to attain power redundancy with high system integrity.

Lynx External Battery Cabinet

	Battery 9Ah	Battery 12Ah
Dimensions, D x W x H (mm)	700 x 450 x 1100	
Battery Type (2 x 31)	12 V / 9 Ah	12 V / 12 Ah
Net Weight (Kg)	180kg	250kg
	Battery 26Ah	**Battery 40Ah**
Dimensions, D x W x H (mm)	805 x 590 1320	980 x 650 1320
Battery Type (2 x 31)	12 V / 26 Ah	12 V / 40 Ah
Net Weight (Kg)	710kg	1020kg

LYNX Battery Cabinet

MODEL	Lynx 10kVA	Lynx 15kVA	Lynx 20kVA	Lynx 30kVA	Lynx 40kVA	Lynx 60kVA	Lynx 80kVA	Lynx 100kVA	Lynx 120kVA	Lynx 160kVA	Lynx 200kVA
PHASE	3 phase in / 3 phase out										
CAPACITY	10KVA/ 9KW	15KVA/ 13,5KW	20KVA/ 18KW	30KVA/ 27KW	40KVA/ 36KW	60KVA/ 54KW	80KVA/ 72KW	100KVA/ 90KW	120KVA/ 108KW	160KVA/ 144KW	200KVA/ 180KW
INPUT											
Nominal Voltage	3 x 400V (3Ph + N)										
Acceptable Voltage Range	+15 % or -20 %										
Frequency	50 / 60 Hz ±5 %										
Voltage Range	< 1,5%@ 100% load < 2,5% @ 50% load < 6,0%@ 10% load			< 1,0%@ 100% load < 2,0% @ 50% load < 5,0%@ 10% load				< 1,5%@ 100% load < 2,0% @ 50% load < 6,0%@ 10% load			
Current Limitation	High overload: PFC limit (discharging batteries)										
Power Factor	1.0										
INVERTER											
Nominal Voltage	3 x 400V (3Ph + N)										
Precision Frequency Max. Synchronisation Speed Waveform TotalHarmonic Distortion (THDv) Phase Displacement Dynamic recovery time Admissible Overload	Stationary: ± 1%, Transitory: ± 2% (load variations 100-0-100%) 50/60Hz synchronised ±4 %,with mains absent ±0,05 % ±10 Hz/s Pure Sinewave < 0,5 % (Linear Load) ; < 1,5 % (Non-linear Load) 120° ±1% (balanced load); 120° ±2% (imbalances 50% of the load) 10 ms. at 98% of the static value Phase Overload: 125% for 10 min., 150% for 60s; Total Overload: 112,5% for 10 min., 135% for 60s										
Admissible Crest Factor	3.4:1			3.2:1			2.8:1	3.2:1		3.0:1	
Admissible Power Factor	0,7 inductive to 0,7 capacitive										
Imbalance Output Voltage @ 100% Unbalanced load	<1%										
Current Limit	High overload, short-circuit: RMS Voltage Limit; High Crest-Factor current: Peak Voltage Limit										
STATIC BYPASS											
Type	Solid state										
Voltage	3x400V (3Ph + 0)										
Frequency	50/60 Hz										
Activation Criterion	Microprocessor control										
Transfer Time	zero										
Admissible overload	400% for 10 sec										
Transfer to bypass	Immediate, for overloads above 150%										
Retransfer	Automatic after alarm clear										
MAINTENANCE BYPASS											
Type	Without interruption										
Voltage	3x400V (3Ph + 0)										
Frequency	50/60 Hz										
Overall Efficiency (Line Mode)	90.0%	90.5%	91.0%	92.0%	92.5%	93.0%	94.0%	93.0%	93.3%	92.8%	92.6%
BATTERY											
Standard Model: Built-in Battery Type	12 V / 9 Ah						-				
Standard Model: Numbers	62 pcs						-				
Standard Model: Charging Current (max.)	23,5A				47A		70,5A		188A		
PHYSICAL											
Standard Model: Dimension, D x W x H(mm)	770 x 450 x 1100						850 x 900 x 1900			855 x 900 x 1900	
Standard Model: Net Weight (kgs)	178	186	249	290	357	162	231	255		550	
ENVIRONMENT											
Humidity	0-95 % RH @ 0- 40°C (non-condensing)										
Noise Level	Less than 58dB @ 1 Meter				Less than 60dB @ 1 Meter						
MANAGEMENT											
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC										
SNMP/Web Interface	Power management from SNMP manager and web browser										
NEXT PARTNUMBERS											
LYNX	77130	77131	77132	77133	77134	77135	77145	77146	77147	77148	77149
LOGIX EXB (Battery Extension)	77136	77136	77136	77136	77136	-	-	-	-	-	-

Product specifications are subject to change without further notice