EXIMPOWER

Uninterruptible Power Supplies







LORD 30-120

3 Phase Modular UPS

Finally the benefits of Modular UPS are for all

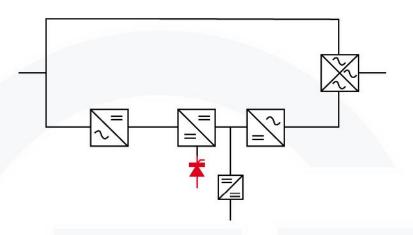
LORD 30-120

The **LORD 30/120** is an uninteruptible power supply, three phase input/output, ranging from 15 kVA to 120 kVA (equipped with 15 kVA UPS modules), a double conversion system, provided of DSP technology, designed to work for redundant applications (N+1).



EACH MODULE IS A COMPLETE AND INDEPENDENT UPS:

- Three phase rectifier
- · Battery charger
- · IGBT inverter
- · Static switch
- DSP control logic





A very powerfull **DSP** of **last generation**.

That reduces the number of the external components



SYSTEM ADVANTAGES

- 1. Highest reliability (MTBF of the suppling chain 100 times more than the stand alone UPS)
- 2. Replacement of the fault module, with no supply interruption, (Hot swap)
- **3.** Time to replace the module < 3 min
- 4. Power increasing simply by adding a module unit
- 5. Very low maintenance costs
- **6.** Each module is a complete and independent Uninteruptible Power Supply

UPS FRONT PANEL



MENÙ:

- 1. System on
- 2. System stand-by
- 3. Temperature
- 4. Command
- 5. History
- 6. Diagnostic
- 7. Configuration

THE HIGHEST CLASS PERFORMANCES TO SUPPLY THE MOST CRITICAL LOADS

- LOCAL AREA NETWORKS (LAN)
- SERVERS
- INTERNET CENTERS (ISP/ASP/POP)
- DATA CENTERS

- HOSPITAL
- BANKS
- EMERGENCY DEVICES
- TELECOMMUNICATIONS DEVICES
- MILITAR APPLICATION
- INDUSTRIAL PLC
- ALARM SYSTEM
- TRANSPORTATION



The LORD system

1. MINILORD 30

MINI LORD is the Entry Level to the LORD Family. It is the ideal solution to supply a medium load that requires the redundancy or the possibility to expand the power in the future. Its advantages win against any stand alone UPS solution. The solution is very compact and with the possibility to expand also the autonomy adding up to 3 battery banks in the same cabinet. Power ranging from 15 kVA to 30 kVA (2 modules), 19" rack mounted with the internal battery pack.



2.LORD 60

Modular UPS three phase system ranging from 15 kVA to 60 kVA, 19" rack mounted with the internal battery pack. This solution can include 4 modules 15 kVA providing the following back up time at 75% of nominal load.

Max back up time with internal battery pack				
Nr power modules	kVA	kW at 75% of the rated load	backup time (min)	
1	15	9	75	
2	30	18	32	
3	45	27	16	
4	60	36	12	



If redundancy is requested (N+1 modules) the max output power will be $45\ \text{kVA}$

3.LORD 120

Modular UPS three phase system ranging from 15 kVA to 120 kVA, 19" rack mounted, designed for external battery cabinet. The max output power of the LORD cabinet is 120 kVA (8 modules 15 kVA/each). The battery pack are included in the external cabinet. If redundancy is requested (N+1 modules) the max output power is 105 kVA.





4. MODULAR BATTERY CABINET (2000x1000x800 HxDxW)

It is designed to include up to 40 x 100 Ah battery blocks. This battery pack, with a 75% of the max load, allows a standard autonomy of 20 minutes. Longer back up time is possible simply adding battery cabinets, working in parallel or using other battery packs in shelves.



User interface

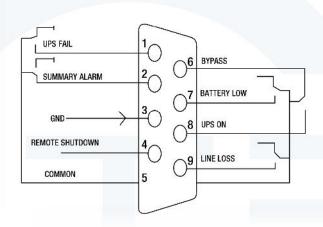
Communication board RS 232, RS 485 => STANDARD

Remote UPS monitoring for alarms, status, measures, historical data.

Communication board SNMP, relay card => OPTIONAL



SNMP Board



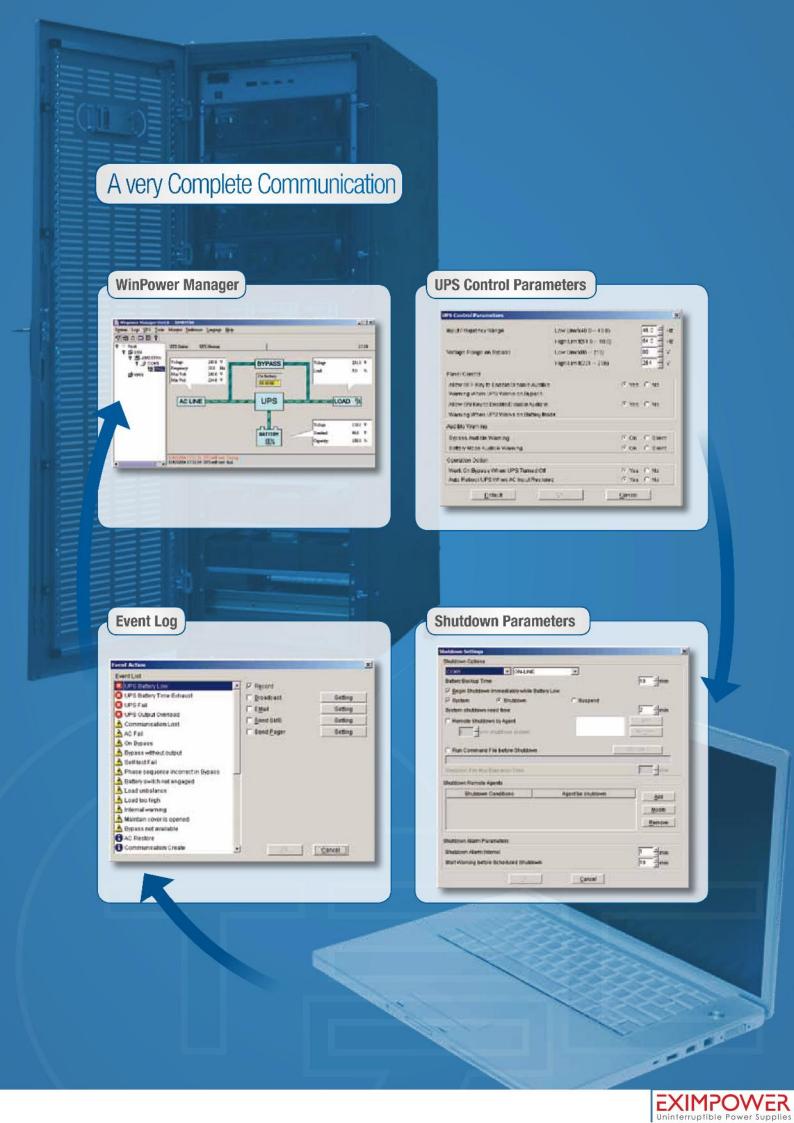


Free contacts circuit board

Pin #	Description	1/0
1	UPS Fail	Output
2	Summary Alarm	Output
3	GND	Input
1	Remote Shutdown	Input
5	Common	Input
6	Bypass	Output
7	Battery Low	Output
8	UPS ON	Output
9	Line Loss	Output

Communication interface card AS 400/dry contact.







LORD 30-120

	TECHNICAL SPECIFICATIONS		
MODEL	LORD 30-120		
Nominal power	from 15kVA to 120kVA		
	INPUT		
Voltage	380V/400V/415V, 3 phases 4 wires		
Voltage tolerance	294Vac to 520Vac		
Frequency	50/60 ± 4Hz		
Power Factor	≥ 0.99		
THDi %	< 5%		
	BYPASS		
Voltage	380V/400V/415V, 3 phases 4 wires		
Voltage tolerance	305Vac to 457Vac (selectable)		
	OUTPUT		
Voltage	380V/400V/415V, 3 phases 4 wires		
Static voltage stability	≤ 1.5%		
Frequency	50Hz / 60Hz ± 0,05% (battery)		
Power factor	0,8		
Overload protection	Load < 105% no transfer to bypass; $105\% \le load < 115\%$ transfer to bypass after 5 min; $115\% \le load < 125\%$ transfer to bypass after 1 min; $load \ge 125\%$ transfer after 1 sec.		
	MODULE		
Nominal power	15kVA / 12kW		
Efficency	> 91% at full load		
	BATTERY		
Battery nominal voltage	480 Vcc		
Battery connections	3 wires (positive / neutral / negative)		
Charger output voltage	273 ± 1% Vdc		
Туре	VRLA sealed		
Max load current	4,5A for each module (selectable by LCD display)		
	MECHANICAL		
Acustical Noise (at 1 mt from the UPS with 8 modules)	≤ 62dB		
Ambient operative temperature	0°C - 40°C		
Relative umidity (Max)	90% (non condensing)		
Ambient store temperature	-15°C - +55°C		
Module weight	35kg		
Module dimensions (mm)	440(W) x 700(D) x 131(H)		
Mini Must Dimension (mm)	600(W) x 1000(D) x 1500(H)		
Cabinet Dimensions / Must 60 (mm)	600(W) x 1000(D) x 2000(H)		
Cabinet Dimensions / Must 120 (mm)	600(W) x 1000(D) x 2000(H)		
Casillot Billion of Mast 120 (IIIII)	STANDARD NORMS		
Sofoty			
Safety	EN50091-1-1/EN62040-1-1		
Emc	IEC 61000-4-2(L3); IEC 610004-3(L3); IEC 61000-4-4(L3); IEC 61000-4-5(L4); EN 50091-2(>25A) Class A		