ENCLOVE
ENERGY SOLUTIONS

LEON-A SERIES
INDUSTRIAL UPS
110kVA to 500kVA

RESISTANT TO ALL TRANSIENTS
RELIABLE OPERATION UNDER ALL UNSTABLE CONDITIONS.

FULL GALVANIC ISOLATION
FULL ISOLATION BETWEEN INPUT & OUTPUT WITH AL OR CU TRANFORMERS

FULL FRONT ACCESS
EASY MAINTENANCE AND REPAIR. ALL COMPONENTS ACCESIBLE FROM FRONT

SECURE VENTILATION
VENTILATION FAILURE IS SECURED WITH DUAL FANS AND FAN FAILURE ALARM

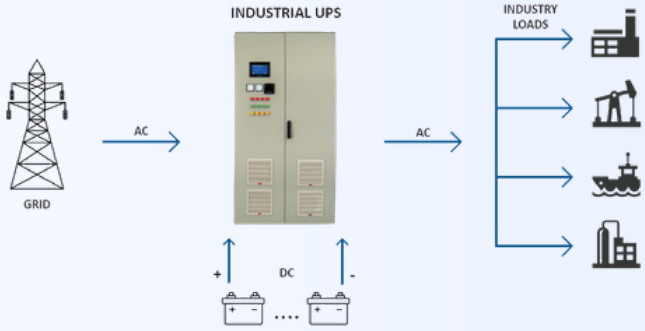
ENCLOVE Energy:
Industrial Uninterruptable Power Supply

The LEON-A Series is engineered for the highest tier of industrial power security, utilizing true online double-conversion technology to create a complete barrier between your load and grid instabilities. By regenerating a continuous, laboratory-grade sine wave output, the system ensures that mission-critical processes remain entirely unaffected by voltage sags, surges, or frequency shifts.

Built for the rigors of heavy-duty environments, the LEON-A Series features enhanced thermal management and high-endurance components that guarantee long-term reliability. Its industrial-grade architecture is designed to handle non-linear loads and high inrush currents, providing a "bulletproof" power foundation for automated factory floors and infrastructure projects.

Key Features

- **Industrial Resilience:** Heavy-duty construction ensures continuity in high-temperature or dusty environments.
- **Total Isolation:** VFI (Voltage and Frequency Independent) operation protects against all power disturbances.
- **Infrastructure Friendly:** 12-pulse topology reduces the Input THDi and increases the Input Power Factor.
- **Variaty of Applications:** 400Hz option makes is suitable for Marine and Military Applications.
- **Buy & Forget:** Uncompetable +25 Design life allow super long term operations for facilities.



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MODEL	GPL11000	GPL31000	GPL33000
Input/Output Phase	1:1 Phase	3:1 Phase	3:3 Phase
Rated Power	Max 40kVA	Max 200kVA	Max 500kVA
INPUT			
Mains & Bypass Voltage	110VAC / 115VAC / 120VAC 220VAC / 230VAC / 240VAC (Others Optional)	3x190VAC / 3x200VAC / 3x210VAC 3x380VAC / 3x400VAC / 3x415VAC / 3x440VAC / 3x460VAC / 3x600VAC (Others Optional)	
Mains Voltage Range	±10% (±15% / ±20% Optional)		
Wiring	3W (P+N+PE)	5W (3P+N+PE)	
Frequency	50Hz, 60Hz or 400Hz (±10%)w		
Rectifier Type	Full Bridge	6 Pulse / 12 Pulse	
THDu	30% (12% with 12 Pulse Rectifier / 5% with Input Filter)		
OUTPUT			
Output Voltage	110VAC / 115VAC / 120VAC 220VAC / 230VAC / 240VAC (Others Optional)	3x190VAC / 3x200VAC / 3x210VAC 3x380VAC / 3x400VAC / 3x415VAC / 3x440VAC / 3x460VAC / 3x600VAC (Others Optional)	
Frequency	50Hz, 60Hz or 400Hz (±10%)w		
Power Factor	0.8 (1.0 Optional)		
THDu	2% (linear load)		
Crest Factor	3:1		
Recovery Time	25ms (to within 1%)		
Overload	110% Load - Continuous / 110-125% Load - 10mins / 125-150% Load - 1min		
Isolation	Galvanic Isolation Transformer - Output (Bypass & Input Isolation Optional)		
BATTERY CHARACTERISTICS			
Battery Type	VRLA / OPzV / OPzS / NiCad / AGM		
Battery Voltage	110VDC / 220VDC / 384VDC		
Battery Charge Voltage	VRLA / OPzV / OPzS: 2,23VDC to 2,35VDC (Float) – 2.40VDC (Boost/Equalize) per cell (Adjustable) Ni-Cd: 1,42VDC (Float) – 1,47VDC to 1,7VDC (Boost/Equalize) per cell (Adjustable)		
Battery Charge Current	VRLA / OPzV / OPzS: 10-15% Current of Battery Capacity (Adjustable) Ni-Cd: 20% Current of Battery Capacity (Adjustable)		
Boost Charge Timer	0-20 Hours (Adjustable)		
PHYSICAL CHARACTERISTICS			
Cabinet Type	Tower		
Cabinet Color	RAL7032, RAL7035 (Others Optional)		
Ingress Protection	IP20 (up to IP55 - Optional)		
Cooling System	Fan Forced Cooling (Natural Cooling, Water Cooling, Smart Fans Optional		
Cable Entry	Bottom (Others Optional)		
ENVIRONMENTAL CHARACTERISTICS			
Storage Temperature	-25 to 70°C		
Operating Temperature	-10 to 50°C		
Relative Humidity	0 to 95% (Non-Condensing)		
Operating Altitude	1000m from MSL (1% derate each 100m after 1000m)		
Acoustic Noise	55dB to 85dB		
COMMUNICATIONS			
Standard Communications	ModBus RTU RS232 (OPT: RS485, ModBus TCP/IP, SNMP and IEC61850), Dry Contact x4 (OPT: to x16)		
Parallel Operation	Up to 4 Units (Dual Redundant or Capacity)		
HMI	LED/LCD Panel (OPT: Touch Screen Panel, Mimic Panel)		
Languages	Turkish, English, German, Dutch, Portuguese, Spanish, Russian		
FEATURES			
Protections	Temperature Compensated Charge / LVD / Battery Current Limit MCB or MCCB for Input, Output and Battery, Line Failure, DC & Battery Low-High Alarm, Output Current Limiting DC Earth Fault, Over Temperature, Load on Battery, Charger Failure, Emergency Stop		
STANDARDS			
EN 62040-1	General and Safety Requirements for UPS		
EN 62040-2	Electromagnetic Compatibility (EMC) Requirements fo UPS		
ISO14001 - ISO9001	Quality Assurance		

* Our company has the right to change the model, visual and technical specification information of the products without prior notice.