

MIL Grade UPS Systems Battery Racks & Frequency Converters



APLAB offers a full array of rugged and military true online UPS systems to suit any industrial, or military application, including those that require compliance to military environmental and electrical standards such as IEC EN 62040-1, IEC EN 62040-3, EMC-EMI-MIL-STD-461E and more.

These rugged military UPS systems are available in rack mount, freestanding or wall-mount NEMA cabinet, and custom enclosure configurations to suit applications with tight space constraints.

Any standard voltage (single or three-phase) can be accommodated, in 50, 60, or 400 Hz frequencies. Most models can also act as frequency converters, changing a given input voltage and frequency to a different pure sine wave output voltage and frequency in conjunction with the usual battery back-up capabilities.

All APLAB rugged, military true online UPS systems feature our modular design and robust construction, for many years of reliable performance, as well as the resulting low MTTR, MTBF, and Cost-To-Own figures.

APLAB's double conversion UPS systems are offered in 19 inch rack mount format and in free standing cabinets in power ratings from 5kVA thru 200 kVA.

Features

- **Rack Mount True Online UPS**
- **Rugged Military Grade Specs and Construction**
- **Rugged Custom-built True Online UPS**
- **Double Conversion Frequency Converters**
- **Military Grade Battery Racks for SMF or LiFePO4 energy storage**

Technical Specifications

MODELS	ATUT 1000-MIL	ATUT 2000MIL	ATUT 2500MIL	ATUT 3000MIL
Power Rating	1 KVA	2 KVA	2.5 KVA	3 KVA
LINE INPUT				
Nominal Voltage	230V AC			
Voltage Tolerance	-20% / +10%			
Frequency	47 - 53Hz			
OUTPUT				
Nominal Power (KVA)	1000	2000	2500	3000
Power (Watts)	800	1600	2000	2400
Number of phases	1 Phase + E			
Nominal Voltage	230V AC			
Static Stability	±1%			
Dynamic Stability	±5% in 10 ms			
Voltage Distortion	<3% with linear load / <5% with non-linear load			
Crest Factor	3 : 1			
Frequency Stability	0.05%			
Frequency	50Hz			
Overload	110% continuous, 125% for 10 min, 150% for 1 min			
BATTERIES				
Type	VRLA AGM (LiFePO4 option available)			
Residual Ripple Voltage	<1%			
Typical Charge Current	0.2 x C10			
ENVIRONMENTAL, COMMUNICATION, MECHANICAL				
Communications	RS232 + SNMP			
Operating Temperature	-10°C / +55°C			
Relative Humidity	<95% non-condensing			
Colour	RAL 7807 (Structured Black) (other colour on request)			
Noise Level	50 dBA			
IP Rating	IP21 to IP-54 optional			
Overall Efficiency	up to 90%			
COMPLIANCE				
Standards	Safety IEC EN 62040-1, IEC EN 62040-3, EMC-EMI-MIL-STD-461E			
Dimensions	19" Rack with 3U Height			

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THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.