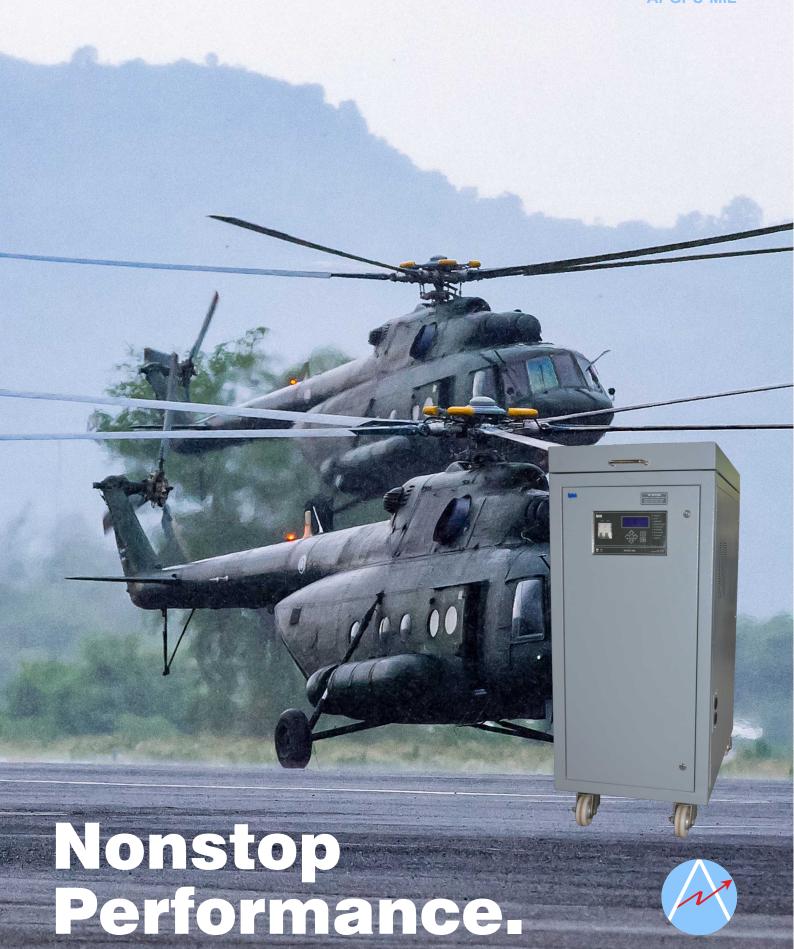
Aplab

GROUND POWER UNIT

APGPII-MII



APGPU-MIL

APGPU-MIL from Aplab is a mobile, military grade, frequency converter, with a low ripple 3000W DC source to support your most demanding AC and DC equipment.

APGPU-MIL provides peak power at a constant frequency of 400 Hz for all your stringent defence aviation requirements. A built-in low-ripple, medium-power DC source ensures stable power for all your field DC equipment.

APGPU-MIL incorporates Aplab's unique Power Boost technology that can sustain high in-rush aviation motor loads for over ten seconds.

In Power Boost Mode, the constant current operation feature automatically limits the output current to the rated value to allow your high in-rush current motor loads to reach steady state operation.

Power Boost makes it highly suitable for loads like motors, compressors, transformers and other high inrush loads, and even cyclic industrial loads with switching characteristics are handled smoothly.

Power Boost ensures that output short-circuits can be sustained for 10 seconds while supplying twice the output current for fusing or clearing the fault.

APGPU-MIL has industry leading reliability. Our MTBF numbers are some of the highest in the industry. Aplab's unique Power Boost technology uses sophisticated digital signal processing algorithms to ensure high reliability

The APGPU-MIL has intensive monitoring of power through high-performance IGBT switches and magnetics to ensure that the power electronics operations are always below critical threshold values, leading to increased life spans for critical devices.

Built-in large event and fault logs capacity (over 500 events) allow for fast fault detection and repair. Combined with Aplab's award winning pan-India service support means reduced down-times for you!

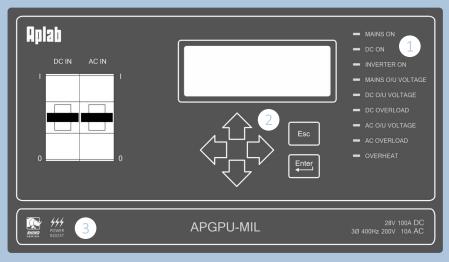
Improved user accessibility with advanced features like remote run-time, monitoring, and control via RS-485 and optional LAN Ethernet.

Built-in Galvanic isolation ensures clean power is always supplied despite any input power disturbances. APGPU-MIL's clean power will ensure that your equipment will always operate under optimal power conditions, which will increase your equipment life.

APGPU-MIL is designed for Nonstop Performance.



The keypad is used to view system measurements and interact with the system including displaying event logs.





The indication LEDs depict the current state of operation as well as possible faults and alarms.



Unique power boost technology built-in

Technical Specifications

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AC OUTPUT		
Voltage	115V AC (L-N), 200V AC (L-L) 3 Phase, 4 Wire, 400Hz.	
	10A/Phase continuous, (20A peak for max 10 secs).	
Regulation		
Frequency	400Hz.	
Frequency Stability		
Waveform		
Distortion	<5% on linear loads.	
Inverter Technology	Digital Signal Processor PWM Technology.	
DC OUTPUT		
Voltage	28V with ±2V Settablilty.	
	100A continuous, (200 A peak for less than 1 sec.).	
Regulation		
Ripple		
SYSTEM		
Input Voltage	230 Volts ±10% Single Phase.	
Input Frequency	50Hz, ±3Hz.	
LED Indications	Mains over/under voltage AC Output over/under voltage DC Output overload and short circuit DC Output overload Overheat Built-in soft start Snubber circuits for surge protection Mains On DC Output On Inverter ON Mains over/under voltage DC Output over/under voltage DC Output overload AC Output over/under voltage	
Audible Alarm	For Fault condition.	
Display and Metering	Special Low temperature, 20X4 LCD Displaying, Input Voltage, Inverter I/P DC Voltage, Output AC Voltage, Output AC Current, Output Load Percentage, DC output Voltage, DC output current, Input and Output Frequency.	
Isolation	Built in Input to Output isolation.	
Dimension (mm)	500 (W) x 800 (D) x 1000 (H) (Without Wheels & Top Cable Tray). The Unit is mounted on 4" Nylon Castor Wheels - Fixed type 2nos Rear wheels & Swivelled type 2nos Front wheels.	
Cables and Accessories (optional)	Input Cable: 3 Core, 10 Sq.mm 20-meter. DC O/P Cable: 2 x 1 Core, 70 Sq.mm 5 Meters with DC NATO connector. AC O/P Cable: 5 Core/6 Core, 4 Sq.mm 5 Meters with AC NATO Connector.	
Cooling	Forced air cooling.	

Optional MIL-Grade Features

Operating Temperature	
Humidity Tolerance	95% relative humidity @ 40°C
Vibration	Welded structure for increased durability and vibration withstand capability
Dust Protection	Dust particle ingress protection filters
Moisture and Fungal Protection	Special marine grade coatings

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