Levon Aviation's policy has always been to offer the best designed products that are environmentally friendly, simple to use, easy to maintain, exceptionally well manufactured, and thus meeting our clients' strict requirements as well as complying with all standards and legislation.

Levon Aviation offers five standard models of 400Hz Aircraft Frequency Converters: 20KVA, 30KVA, 45KVA, 60KVA, and 90KVA.

Levon Aviation ensures high quality, efficient and secure electrical power supplies.
Levon Aviation latest 400Hz Aircraft Frequency Converters are the safest and most reliable solution for your aircraft power supply.

Our 400Hz Aircraft Frequency Converters were designed with Power factor correction to guarantee a perfect sinusoidal input current from 25% to 150% load and low THDi (<1.5%).

- **CE Mark Certified** (EN61000-6-4 Electromagnetic compatibility - Generic emission standard; EN61000-6-2 Electromagnetic compatibility - Generic immunity standard; Low Voltage Directive (LVD) 2006/95/EC)
- **State of the art semiconductor technology** (IGBT) guarantee **Unity Power Factor** and **Low Input Harmonics** (THDi < 1.5 %)
- **High Efficiency** (up to 95% efficiency)
- **Voltage compensation** (Load Dependent or via Remote Feedback)
- **No Break Power Transfer compatibility** (NBPT)
- **User friendly control panel**
- **Data logging**
- **IP55 enclosures** for outdoor use in extreme environmental conditions
- **Optional 28VDC 600A output / 2400A Starting** with DC and AC output working simultaneously
- **Green Standby Function** (20W power consumption when GSF is activated)
- **Low noise emission** (<65dBA@1m)
**POWER QUALITY**

**INPUT**
- State of the art semiconductor technology (IGBT) Rectifier.
- Power Factor Correction (PF= 1)
- 95% efficiency
- 4 Quadrant Operation (better response of the system and safer operation for NBPT)
- Low input harmonics(< 1.5 % THDi), to comply with the strictest regulations@ any load.

**OUTPUT**
- Voltage compensation (Load Dependent or via Remote Feedback - Real PLUG & PLAY connect GPU to Aircraft and voltage compensation is done automatically, no user adjustment required or additional accessories)
- 4 Quadrant Operation (better response of the system and safer operation for NBPT)
- Vector control Inverter for better response and higher efficiency

**EFFICIENCY**
- Up to 95% efficiency
- Green Standby Function - losses: 20W
- No load losses: <1.5kW

**PROTECTION & SAFETY**
- Enclosure Protection class up to IP55
- Over/under voltage at output
- Overload capability designed for:
  - Power stage 150% - Continuous
  - Magnetics 120% - Continuous
  - Short Circuit <5V (4 sec)
- Regulator Overload protection set at:
  - 120% for 600seconds
  - 150% for 60 seconds
  - 200% for 2 seconds
- Over temperature protection
- Short circuit proof by electric current limiting.
- Neutral voltage supervision
- Broken neutral supervision

**INTERFACE & COMMUNICATIONS**
- RS232

**MISCELLANEOUS**
- MTTR: 20 minutes

**OPTIONAL FEATURES**
- 28.5VDC Output
  - 600A continuous / 2400A starting
- Dual output
- Communications:
  - Monitoring by Web and SNMP
  - MODBUS RS485
  - MODBUS TC/IP
  - Remote control box
  - Billing System
- Military Interlock

**NORMS & STANDARDS**
- DFS400 Specification for 400Hz aircraft power
- ISO 6858 Aircraft ground support electrical supplies
- BS 2G 219 General requirements for ground support equipment
- MIL-STD-704 Aircraft electric power characteristics
- SAE ARP 5015 Ground equipment
  - 400Hz ground power performance requirements
- EN62040-1-1 General & safety requirement
- EN61558-2-6 General & safety requirement
- EN61000-6-4 Electromagnetic compatibility - Generic emission standard
- EN61000-6-2 Electromagnetic compatibility - Generic immunity
**SPECIFICATIONS**

### INPUT

3 Phase 400V/415VAC  
45Hz or 65Hz  
Input Current Harmonics  

* +/- 15%  
* +/- 5% (frequency independent)  
* <1.5% at nominal current *Sinusoidal*

### OUTPUT

3 Phase 200VAC - 400Hz  
Overall Efficiency  
Maximum Crest Factor  
Overload Capacity  
Frequency Stability  

* +/- 1%  
* 87% to 95%  
* 1.4:1  
* 150% Continuous  
* +/- 0.01% Crystal Controlled

### ENVIRONMENTAL CONDITIONS

- Temperature range at sea level: -30°C to +50°C (@ 100% Load)  
- Relative Humidity: 10% to 100%  
- Noise Level: < 65dBA @ 1 metre  
- Protection Index: IP55  

* *Other electronic overload limits available on request*  
* *Other voltages and frequencies available on request*

### DIMENSIONS (mm)

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<th>Value</th>
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