avro GSE
Best on Ground

Full Electric Battery GPU Series

Redefine Ground Power. Fully Electric. Zero Emissions. Maximum Reliability.



GP90B GP120B GP140B GP180B

Avro's Full Electric Battery Ground Power Units (GPUs) set a new standard in aircraft ground power support – clean, quiet, powerful, and compliant with the world's most rigorous aviation standards.

The Full Electric Battery GPU Series from Avro GSE delivers precision 400 Hz aircraft power using advanced $LiFePO_4$ battery technology in a mobile, trailer-mounted package. Designed to support narrow-body to wide-body aircraft without onboard engine or APU power, these units offer operational flexibility, reduced environmental impact, and lower total cost of ownership.

Core Features Across the Series

- **High-performance power conversion system designed for stable 400 Hz output**
- **Intuitive Control Panel** with operator-friendly interface and safety monitoring.
- **Tool-free Access** to major service areas for rapid maintenance.
- **Designed to comply with applicable EN, ISO, SAE and CE requirements, and aligned with IATA ground operations guidelines.**
- **Mobile Trailer Configuration** with 30 km/h towing speed for rapid repositioning.

Why Go **Electric?**

Zero Emissions at Point of Use

Fully battery-powered operation eliminates onsite fuel combustion and associated emissions.

Quieter Ramp Environment

Reduced noise supports airport sustainability goals and operator comfort.

Lower Operating Costs

No fuel, simpler maintenance, and fewer moving parts versus traditional diesel GPUs.

Broad Aircraft Compatibility

Versatile 400 Hz outputs and 28 V DC output available on select models or as an option.

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In-Depth
Feature Highlights

GP90B Compact Yet Capable

- Delivers 90 kVA precision power for a wide range of aircraft.
- Available battery options enhance operational duration to suit your schedule.
- Easy to position and operate in busy ramp environments.

GP120B Balanced Performance

- Mid-range capacity optimized for both narrow and larger aircraft.
- Same dependable build quality with an extended energy reserve.

GP140B High-Demand Power

- Increased amperage and dual outputs for simultaneous multi-system support.
- Ideal for busy gates and turnarounds requiring robust electrical reserves.

GP180B Peak Electric Capability

- Top-tier 180 kVA capacity with high current delivery.
- Designed for wide-body and high-utilization operations.

MODEL	GPU POWER	BATTERY PACK CAPACITY	AMPERAGE	OUTPUTS	KEY USE CASES
GP90B	90 kVA	75–150 kWh	210 Ah	400 Hz + optional 28 V DC	Regional/medium aircraft ramp operations
GP120B	120 kVA	150 kWh	280 Ah	400 Hz + optional 28 V DC	Mid-sized fleet support
GP140B	140 kVA	150 kWh	315 Ah	Dual 400 Hz	Wide-body support, high throughput
GP180B	180 kVA	150 kWh	420 Ah	Dual 400 Hz	Heavy-duty operations & multiple system power

Technical Specifications
Standard Across Series



Power & Recharge

- Input voltage for recharge: 380/415 Vac, 50 Hz.
- Lithium $LiFePO_4$ battery technology for safety and longevity.

Outputs

- Reliable 400 Hz power with optional 28 V DC support where specified.
- Standard 10 m cable sets; other lengths on request.

Dimensions & Speed (Typical)

- Max Towing Speed: 30 km/h.
- Width (all models): ~1.68 m; Height ~1.60–1.70 m depending on model.

Contact Us

For more information or to request a quote:

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