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# APU 2

## AUXILIARY POWER UNIT



- Self-Contained APU
- 33 KVA, 240 VAC electrical power
- 20 kW air cooling capacity
- +49°C Ambient
- Lightweight aluminium structural frame
- Twin compressor arrangement
- Integrated radiator & charge air cooler
- Designed for simplified maintenance
- Rugged construction for demanding duty

The Calatherm Self-Contained Auxiliary Power Unit 2 (APU2) is a fully integrated solution engineered to provide independent electrical power and climate control for specialist vehicle applications.

Combining a 33kVA generator with high capacity 20kW cooling, the APU delivers reliable performance without reliance on the vehicle's primary engine. Housed within a lightweight aluminium frame, the assembly incorporates a bespoke cooling pack, twin compressors, radiator, charge air cooler, air filtration system and electronic control panel, all supported on anti-vibration mounts for enhanced durability.

Designed to operate in ambient temperatures up to +49°C, the system offers dependable performance in demanding environments while supporting mission readiness, reducing vehicle idling and simplifying installation, maintenance and long-term fleet support

## BENEFITS

- Improves operator comfort during extended vehicle operation. Provides independent electrical power and climate control without operating the vehicle engine.
- Supports mission readiness through continuous auxiliary power in deployed operating environments.
- Increases equipment reliability using proven components and robust integrated system architecture.
- Lightweight aluminium construction improves vehicle payload capacity without compromising structural integrity.
- Delivers reliable cooling performance in ambient temperatures up to +49°C.
- Simplifies vehicle integration with a fully assembled, self-contained modular package.
- Maintains stable electrical power for mission-critical onboard equipment and support systems.

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## TECHNICAL SPECIFICATION

| | |
|---|---|
| System Type | Auxiliary Power Unit |
| Engine | Ford 1.6l Tiger Diesel |
| Generator | Mecc Alte ECO |
| Cooling Pack | Integrated cooling pack with charge air cooler |
| Power Output | 33 kVA, 240 VAC |
| Electrical System Voltage | 24 VDC |
| Cooling Capacity | 20 kW |
| Heating Capacity | Optional 20 kW |
| Control Module | Engine / Injector ECU |
| Ambient Operating Temperature | Up to +49°C |
| Mass | 350 Kg |
| Dimensions | 2,315 x 721 x 1,265 mm |

Note: Other systems and designs are available.

## OUTLINE DIMENSIONS

