

PowerGuard YGG-DS- 11 APU



PowerGuard

Military APU

Onboard Power Solution: APUs for Armored Platforms

- Modern military vehicles need reliable power. Our Auxiliary Power Units (APUs) ensure seamless operation of critical systems even when the main engine is off, enhancing efficiency and reducing fuel costs.
- Compact & Efficient
- Unlike bulky generators, our integrated APUs offer customizable power outputs (2 kW – 100 kW) without requiring extra batteries or fuel tanks.
- Key Benefits
- Silent Operation: Low acoustic signature for stealth.
- Fuel Efficiency: Reduces fuel consumption and engine wear.
- Continuous Power: Supports weapons, communication, and climate control.
- User-Friendly Control
- With IP7 digital control units, operators monitor temperature, fuel, and battery levels in real time. Automatic & manual start options provide flexibility.
- Keep your armored vehicles powerful, operational, and mission-ready. Contact us today to enhance performance with our APUs!

General Specifications

- **Output Voltage:** 28 VDC
- **Output Power:** 10 kW
- **APU Dimensions:** 435 mm (Height) × 1000 mm (Length) × 591 mm (Width)
- **Engine Height:** 435 mm
- **Operating Temperature:** -32°C to +49°C
- **Storage Temperature:** -40°C to +60°C
- **Cooling System:** Water-Cooled
- **System Weight:** 375 ±10 kg

Engine Specifications

- **Engine Brand & Model:** Kubota D1105
- **Engine Type:** Water-Cooled Vertical Diesel
- **Intake System:** Turbocharged
- **Cooling:** Liquid-Cooled
- **Starting:** Starter Motor
- **Fuel Type:** Diesel

Control Panel

Control Panel

- **Location:** Positioned near the APU for easy maintenance access.
- **Error Indicators:** Real-time monitoring of system errors.
- **Manual Override:** Allows immediate intervention during automatic APU operation.
- **Protection Class:** IP67-rated design for durability.
- **Diagnostics:** Stores and provides access to the latest 500 log records for system health analysis.
- **Military Standards:** Complies with MIL-STD-810G and MIL-STD-461E/F.

LED Indicators

- **APU Status:** Displays operational state (On/Off/Error).
- **Fuel Level:** Monitors fuel availability.
- **Pressure Level:** Shows system pressure.
- **DC Current:** Indicates power flow.
- **Battery Voltage:** Displays battery status.

Control Buttons

- **Start/Stop:** Controls APU operation.
- **Auto/Manual:** Switches between automatic and manual operation.
- **Reset:** Clears error indicators.

Additional Features

- **Fault Code Indicator:** Displays error codes for troubleshooting.
- **Adjustable Sound Level:** Customizable alarm volume.
- **Night Mode:** Reduces screen brightness for night operations.

Remote Controller

Functions:

- Remote APU control
- Real-time APU data monitoring via an information screen
- Activation/deactivation of the APU system
- Activation/deactivation of the air conditioning system

Indicators:

- APU On/Off
- CIT Test
- Errors
- Air Conditioner On/Off

Control Buttons:

- Power On/Off (APU)
- Air Conditioner On/Off
- CIT Test
- Cancel
- Menu Up/Down
- Emergency Shutdown

Durability:

- MIL-STD-810G and MIL-STD-461E/F compliant for ruggedness
- IP67-rated for dust and water resistance

Technical Specifications:

- Operating Temperature: -40°C to +85°C
- Power Requirements: 12V - 24V DC
- Dimensions: 120mm × 110mm × 60mm
- Weight: 630g