



**POWERGUARD
TDG-10-YGG-DS**



APU System



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About APU

- **Onboard Power Solution: Auxiliary Power Units (APUs) for Armored Platforms**

Modern military vehicles, such as armored vehicles, tanks, and military trucks, require reliable energy to ensure operational readiness. Auxiliary Power Units (APUs) provide the necessary power, allowing critical systems to function seamlessly even when the main engine is off. With our APU systems, enhance the operational capacity of your vehicles and reduce costs through fuel savings.

- **Compact Power Solutions**

Our APUs are integrated directly into the vehicle's design, unlike bulky generators. They offer an efficient, space-saving solution without the need for separate batteries or fuel tanks. With customizable power outputs ranging from 2 kW to 100 kW, we provide solutions that meet the unique power requirements of each platform.

- **Key Benefits**

Silent Operation: Our APUs operate with minimal noise, ensuring a low acoustic signature for discreet operations.
Fuel Efficiency: By taking over auxiliary tasks, APUs help conserve fuel and reduce engine wear, extending the vehicle's service life.

Continuous Power: APUs provide uninterrupted power for critical systems, such as weapons, communication equipment, and climate control, even during engine maintenance or refueling.

- **User-Friendly Control**

Equipped with user-friendly IP7 control units, our APUs offer easy system monitoring and control. Operators can access real-time data on temperature, fuel level, and battery voltage through a digital interface, ensuring the functionality of mission-critical systems. Both automatic and manual starting options are available, providing increased flexibility. Our APU systems ensure that your armored vehicles remain powerful, operational, and mission-ready, even when the engine is off. We offer the best solution to enhance operational efficiency and reliability. Contact us today and boost your vehicle's performance with our APU systems.



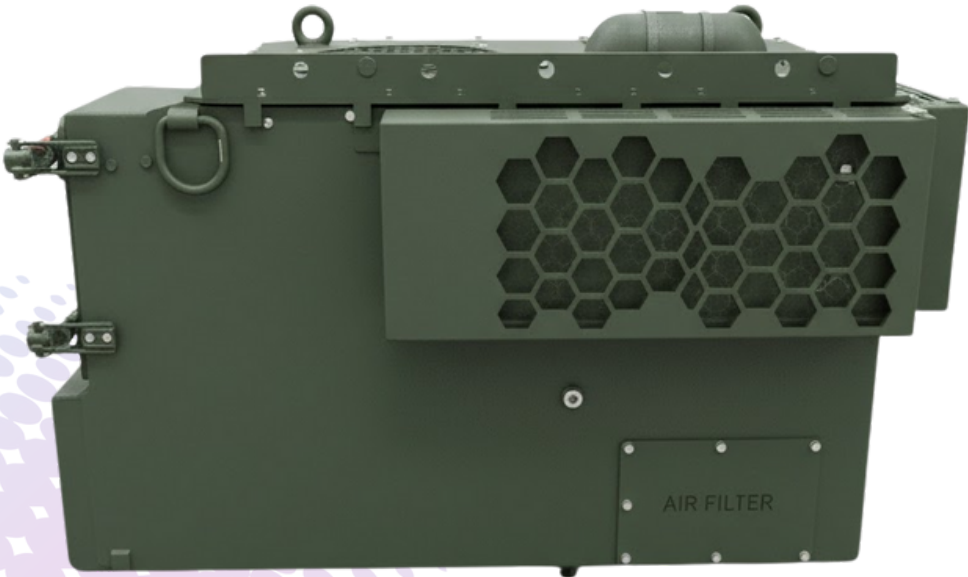
General Specifications

Output Voltage	28 VDC
Output Power	10 kW
Engine Height	435 mm
APU Dimensions	455 mm , Height 1000mm Length, 591 mm, Width
Operating Temperature	-30°C - +49 °C
Storage Temperature	-40°C - +60 °C
Integrated Cooling System	Water Cooled
System Weight	375 ±10 Kg



Engine Specifications

Engine Options	a) Engine Brand: Kubota Model: D1105
Engine Type	Water Cooled Vertical Diesel
Intake System	• Turbo Charge
Cooling	• Liquid Cooled
Starting	• Starter Motor
Fuel Type	• Diesel



APU System

Control Panel

- **Technical Specifications**

Control Panel:

- **Location:** Positioned close to the APU for easy user access during maintenance procedures.
- **Error Indicators:** Current error statuses can be observed on the APU in real time.
- **Manual Override Buttons:** Equipped with buttons for immediate intervention in case of issues during automatic APU activation.
- **Protection Class:** Designed according to IP67 standards.
- **Diagnostics:** Allows access to the latest 500 detailed log records for comprehensive system health assessment.
- **Military Standards:** Compliant with MIL-STD-810G and MIL-STD-461E/F standards.

LED Indicators:

- **APU Status:** Indicates the operating status of the APU (on/off, error).
- **Fuel Level:** Displays the fuel level in the tank.
- **Pressure Level:** Shows the pressure level in the system.
- **DC Current:** Indicates the value of DC current flowing through the system.
- **Battery Voltage:** Displays the voltage level of the battery.

Buttons:

- **Start/Stop:** Used to start or stop the APU.
- **Auto/Manual:** Used to select automatic or manual operation of the APU.
- **Reset:** Used to reset error indicators.
- **Additional Features:**
 - **Fault Code Indicator:** Displays codes that identify the source of the fault.
 - **Adjustable Sound Level:** Used to adjust the alarm volume.
 - **Night Mode:** Adjusts the screen brightness for night use.

Remote Controller

Remote Controller :

Functions:

- Remote APU control
- APU data monitoring via the 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

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 x 110mm x 60mm
- **Weight:** 630g

