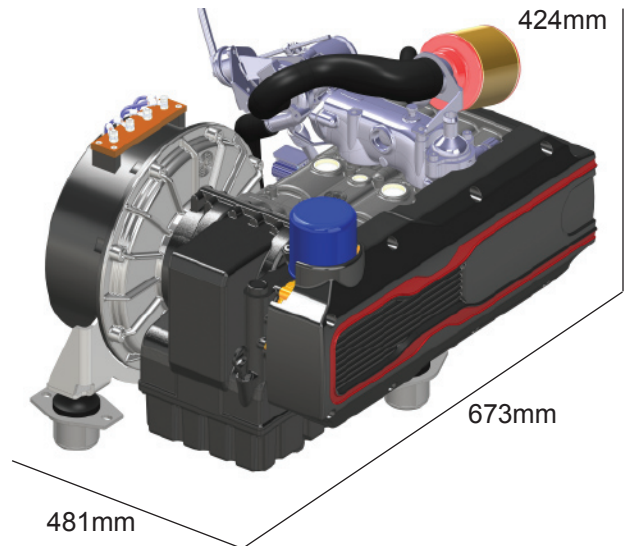
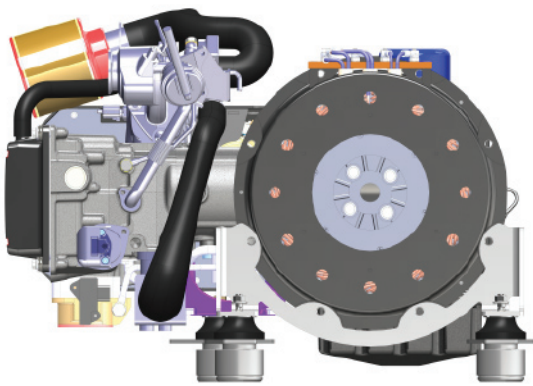
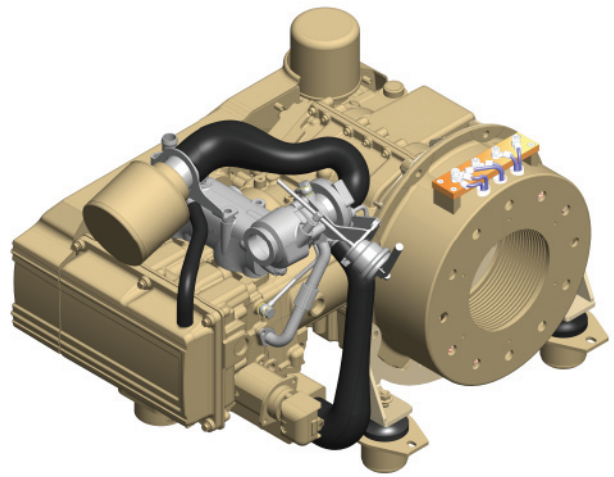
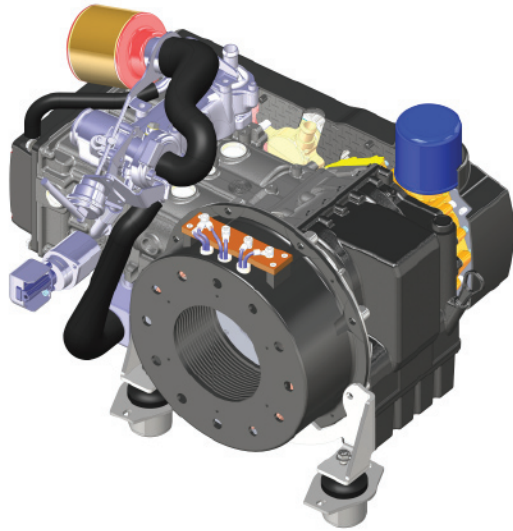


26 kW Diesel Electric Generator

New Technology - Small, Lightweight and Fuel Efficient



Applications

- Hybrid Electric Vehicles
- Mobile APU's & PPU's
- Field Hospitals
- Mobile Radars
- Area Operating Bases
- Drones
- Marine Electric Propulsion
- Communications

Specifications

- Turbo Charged - Integrated Cooler
- Electronic Injection
- Direct Injection Multifuel Diesel
- Monoblock Engine, 2 Cylinder
- Water / Glycol Cooled
- Permanent Magnet Alternator
- Voltage: 28 Vdc – 600 Vdc
- Weighs under 140 kgs

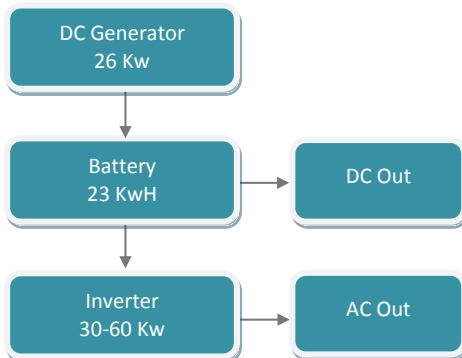
Auxiliary Power and Prime Power Generator - Ultra Lightweight - Fuel Efficient

Meeting Military Needs with Advanced Technology backed by Decades of Experience

High Fuel Efficiency due to:

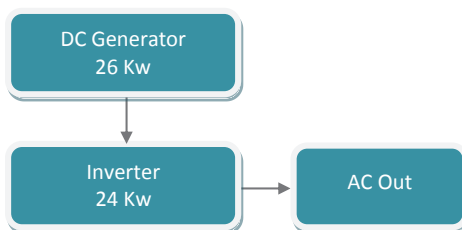
- Rare Earth Permanent Magnet Alternator
- Variable Speed Engine
- Common Rail Electronic Direct Fuel Injection

Hybrid Power Pack



- Fuel Savings up to 70%
- During low loads generator is off and power is supplied by Battery
- Quiet Operation
- High Quality AC Power Output
- Multiple packages can be combined for higher power output and increased reliability

Variable Speed AC Generator



- Fuel Savings up to 30% over fixed speed Generators
- High Quality AC Power Output
- Lightweight - Compact Size

Voltages and Power Outputs

28 Vdc (17 kW), 48 Vdc (22 kW), 96 Vdc to 500 Vdc (26 kW)

* All AC voltages & frequencies available through an inverter

Multi-Fuel Capable

EN590, ASTM D975 1D & 2D, JIS K2204 1&2, F-54, Jet A, Jet A-1, MIL JP-8, JP-5, F-34, F-35, F-44, F-63, F-65, F-75, F-76.

Operational Temperature Range

-40° to +135° F

Engine

The STEYR MOTOR 2 cylinder “horizontal” parallel twin diesel engine is a very unique design supporting the most compact and lightweight DC generator available. The ultra compact engine features direct injection, turbo charging, and an integrated intercooler enabling efficient operations at high altitudes and hot ambient temperatures.

The STEYR 2 cylinder Monoblock engine (patent pending) incorporates a unique rotating mass balancing system enabling a smooth operation by counter balancing the movement of the pistons. The combination of unique features provides this engine with the lowest specific fuel consumption and heat rejection.

The core engine is based on the robust STEYR MOTORS M1 Monoblock design which has a long history in the marine and military markets. Satisfied customers all over the world trust in the STEYR MOTORS Monoblock engine family.

Alternator

The Polar Power Model 8340 Alternator provides compact and lightweight performance:

- Low Maintenance and High Reliability
- NdFeB Magnets for high efficiency
- 32 pole high frequency design provides low electrical ripple
- Direct engine mount for compact design
- Class 220° C magnetic wire for long & reliable service life
- Anodized type III process for aluminum parts

Low Maintenance and High Reliability

- Polar Power’s 100% permanent magnet alternator has no bearings, couplings, brushes, slip rings, or rotating fields so there are no alternator parts to wear out.
- Each Polar Power stator lamination stack is fully bonded to create a stator without voids which prevents moisture penetration, corrosion, and swelling.
- The steel magnet ring and magnets are 100% Nickel plated. The magnets are bonded with high temperature aerospace epoxy, then epoxy painted to further seal the surfaces. This provides excellent salt fog corrosion resistance.
- The magnets are mounted on the inside of the ring so there are no centrifugal forces pulling against the epoxy bonds.
- There are no electronic parts (diodes, etc.) or electrical connections inside the alternator. There is nothing to short or vibrate loose inside the alternator.
- Alternator MTBF exceeding 100,000 hours as there are no parts which rub, wear, or overheat under normal operating conditions.