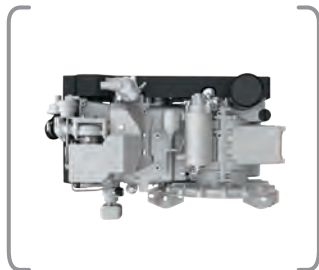
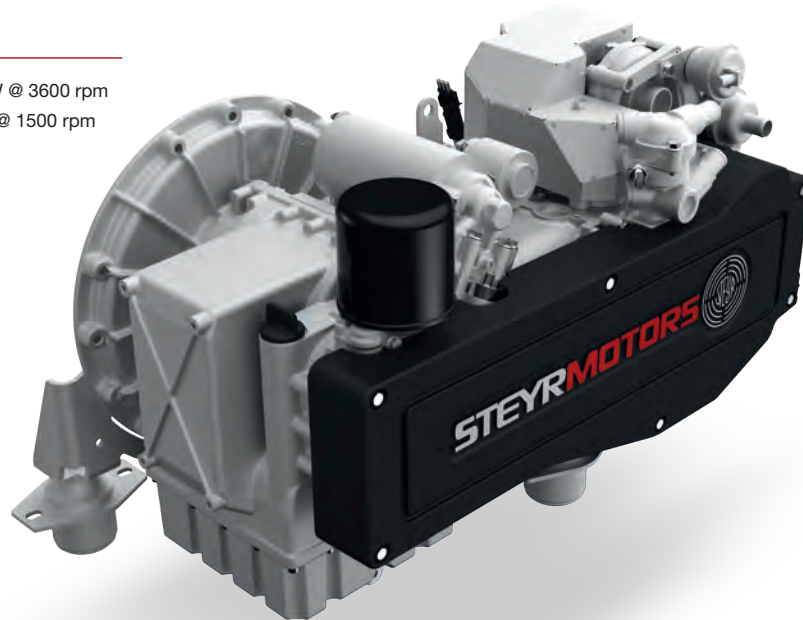


M12 UI VEHICLE ENGINES

FACTS

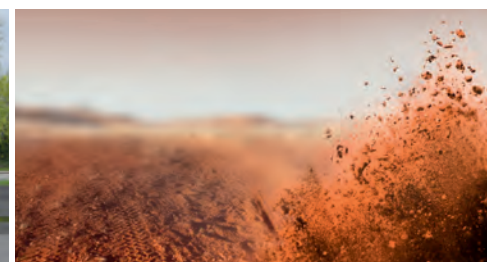
- Rated power: 26.4 kW @ 3600 rpm
- Torque: up to 77 Nm @ 1500 rpm
- Dry weight: 104 kg



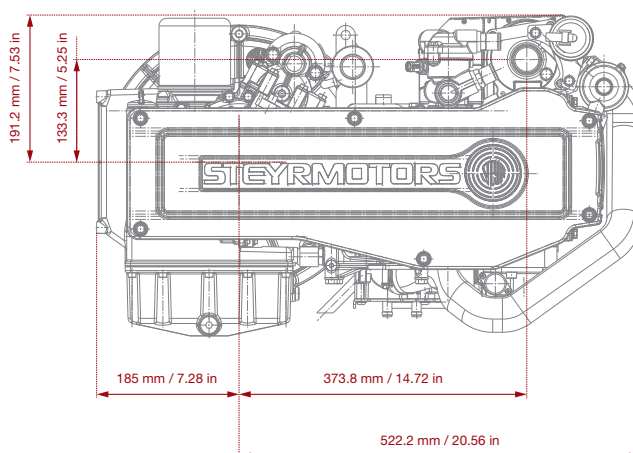
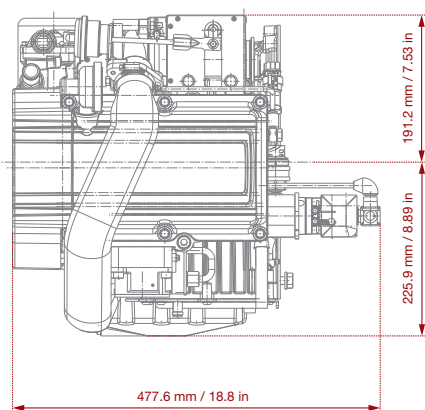
The M12 UI is a 2-cylinder unit injection engine with a horizontal parallel twin piston configuration. Featuring a remarkable power output in a most compact design, the M12 UI is proven and tested to work perfectly under challenging ambient conditions. Furthermore, the engine can be customized to fit specific requirements and it can also be combined to a diesel-electric generator with a permanent magnet alternator.

MAIN FEATURES

- Monoblock design with excellent water cooling
- Turbocharged, intercooled
- Mass balancing system for smooth operation
- Operational temperature range: from -32 °C to +49 °C
- Multifuel capable: F-34/F-35/F-54/F-63/F-65/JP-8/JET A1/EN 590
- High ICE efficiency for higher range and/or lower fuel consumption
- High robustness and durability
- Outstanding performance
- Tested according to several civilian and military standards



See more applications on our website or contact us for further references.



M12 UI	
COMBUSTION SYSTEM	Direct Injection Diesel
DISPLACEMENT (LT)	1.06
BORE (MM)	85
STROKE (MM)	94
CHARGING SYSTEM	Turbocharged, intercooled
RATED POWER (KW/HP)*	26.4/36
RATED SPEED (RPM)	3600
MAX. TORQUE (NM @ RPM)*	77 @ 1500
MIN. FUEL CONSUMPTION (G/KWH)*	225
DRY WEIGHT (KG)	104

* based on Diesel EN 590

OVERALL CHARACTERISTICS

- ➔ 4-stroke, turbocharged, intercooled
- ➔ Perfectly suited for the use as auxiliary power unit (APU)



THE M12 UI AS DIESEL-ELECTRIC POWER PACK

The 2-cylinder unit injection engine can be combined with common DC alternators to create a diesel-electric power pack for use as auxiliary power unit (APU). By adding a permanent magnet alternator, the M12 UI becomes a very efficient genset for various applications. The brand-new STEYR E1-400 is a highly innovative electric machine that can be added to the M12 UI to create a diesel-electric generator with vast application potential.

- ➔ Permanent magnet technology
- ➔ Controller: active inverter
- ➔ Nominal voltage range: 300 VDC to 400 VDC
- ➔ Max. voltage range: 260 VDC to 430 VDC
- ➔ Multipole high-frequency design provides low electrical ripple
- ➔ Low maintenance and high reliability, watercooled
- ➔ Direct engine mount for compact design