

POWER UNITS

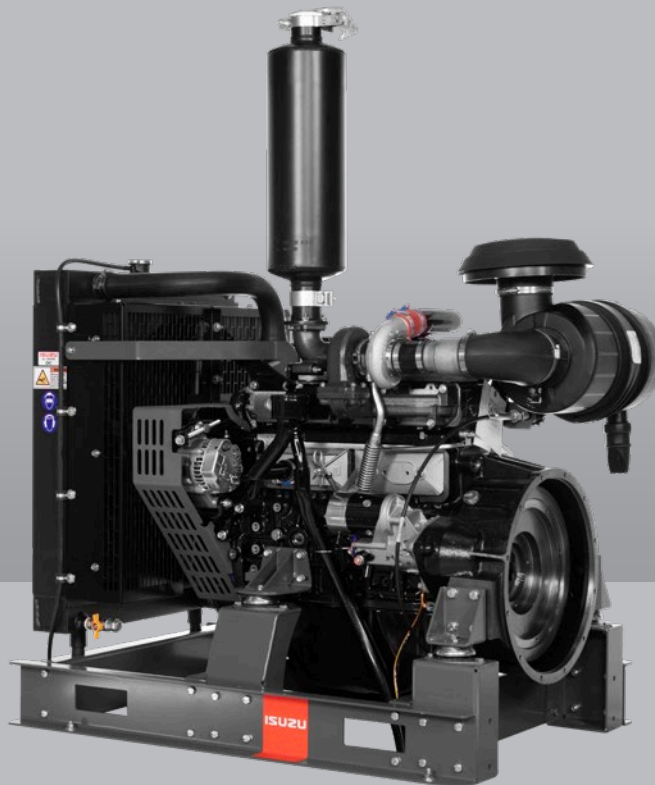
4BG1TRW

SPECIFICATION



ISUZU
POWER
SOLUTIONS

Isuzu Power Solutions.
For those who never stop.



AT A GLANCE

Power Output ■ Max. 91.7 kW / 123.0 hp (rated) @ 2500 RPM
■ Max. 77.9 kW / 104.5 hp (cont.) @ 2500 RPM

Torque Output ■ Max. 387 Nm @ 2000 RPM

Displacement ■ 4.3 L

Bore x Stroke ■ 105 x 125 mm

O/A Dimensions (engine only) ■ 935 mm (L)
■ 666 mm (W)
■ 855 mm (H)

Dry Weight (engine only) ■ 360 kg

Features

- Turbocharged diesel engine
- Mechanical direct injection fuel system
- Low noise, low fuel consumption, low maintenance
- Easy to start
- Reliable power
- Water cooled
- Tier-2 emission spec. reference
- Genuine Isuzu engine manufactured in Japan

ENGINE PERFORMANCE

Engine Power	RPM	1000	1200	1400	1600	1800	2000	2200	2400	2600
Rated (kW / hp)		31.0 / 41.6	40.0 / 53.6	50.0 / 67.1	60.0 / 80.5	71.0 / 95.2	81.1 / 108.8	89.0 / 119.3	91.0 / 122.0	91.7 / 123.0
Continuous (kW / hp)		26.4 / 35.5	34.0 / 45.6	42.5 / 57.0	51.0 / 68.4	60.4 / 80.9	68.9 / 92.4	75.7 / 101.4	77.4 / 103.7	77.9 / 104.5

SPECIFICATIONS

ENGINE

Type: Vertical water-cooled 4-cycle Diesel

Model (Manufacturer): 4BG1-TRW (Isuzu)

Emission Spec. Reference: Tier-2 / Stage-II

Max. Rated Output: 91.7 kW (123.0 hp) @ 2500 RPM

Continuous Output: 77.9 kW (104.5 hp) @ 2500 RPM

Max. Torque 387 Nm @ 2000 RPM

Displacement: 4.3 L

Combustion System: Direct Injection (Turbocharged)

O/A Dimensions: 935 (L) x 666 (W) x 855 mm (H)

Dry Weight: 360 kg

Fuel Consumption: 27.8* L/h @ 100% load

*Based on diesel fuel with a specific gravity of 0.835 kg/m³ at 15°C. Actual value may vary.

POWER UNIT CONFIGURATIONS

- 1. Starter (STR)**
- Light duty air cleaner system
 - Industrial grade exhaust system
 - Engine mounting feet
 - High performance heavy duty cooling system (50°C +)
 - 12V complete electrical system (incl. engine harness and stop solenoid)

- 2. Economy (ECY) Features include STR plus:**
- Medium duty air cleaner system (dual element)
 - Skid rail chassis mounting
 - Mechanical vernier throttle kit
 - IP65 'ECO' engine controller (essential watchdog protection)
 - Engine RPM sender (MPU)

- 3. Premium (PRM) Features include ECY plus:**
- Air cleaner restriction indicator
 - Air cleaner rain/inlet hood
 - Residential grade exhaust system
 - Engine oil pressure and temperature senders
 - IP65 'PRO' engine controller (advanced watchdog protection + application I/O)
 - Remote oil drain kit

KEY BENEFITS

DESIGN

Australian designed and sourced engine mounts and skid

Australian designed heavy duty bar and plate all aluminium radiator

Premium quality air cleaners

Complete electrical engine harness (includes engine stop solenoid, glow plug assisted start)

CONTROL PANEL

DeepSea 'ECO' economy engine controller
(provides essential engine monitoring protection)

ComAp 'PRO' professional engine controller
(advanced engine monitoring protection, plus customer application inputs/outputs, complete event history log, large easy to read display)



DeepSea 'ECO' Controller



ComAp 'PRO' Controller

OPTIONS

Premium pump pressure transducer range

Extension skid for mounting of auxiliary items

Flywheel stub shafts

Auxiliary PTO crankshaft pulley

Heat Exchanged cooling package

4G remote monitoring and control kit

Low coolant alarm protection kit

160W solar battery charging kit

Extension harnesses

Coolant surge tank kit

24V electrical system

Energise to stop kit

Vibration isolation mounts



Transducer option



Heat Exchanger option



Clutch option