

## SPECIFICATION

Isuzu Power Solutions.  
For those who never stop.

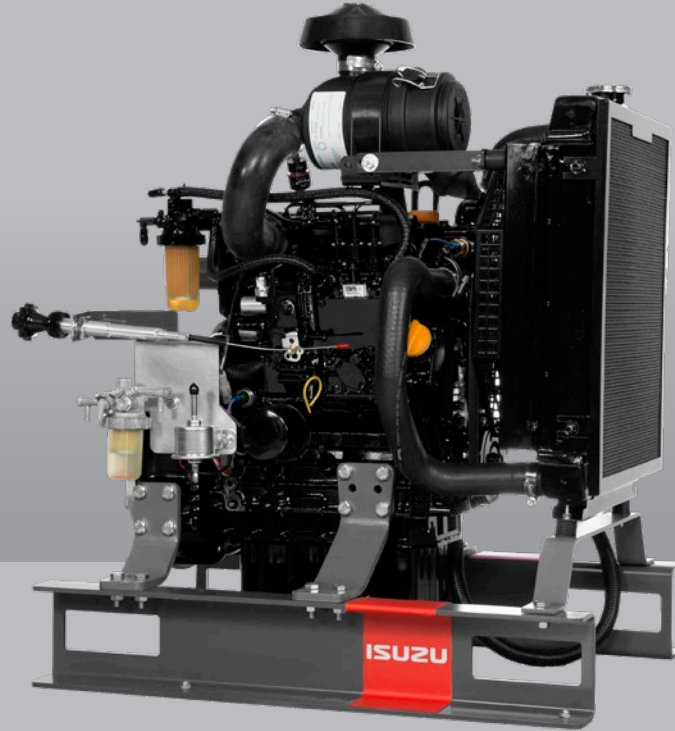


Image included for illustrative purposes only.



## AT A GLANCE

**Power Output**

- Max. 16.3 kW / 21.9 hp (rated) @ 3600 RPM
- Max. 13.9 kW / 18.6 hp (cont.) @ 3600 RPM

**Torque Output** ■ Max. 48.5 Nm @ 2600 RPM

**Displacement** ■ 0.854 L

**Bore x Stroke** ■ 70 x 74 mm

**O/A Dimensions (engine only)**

- 524 mm (L)
- 457 mm (W)
- 576 mm (H)

**Dry Weight (engine only)** ■ 98 kg

### Features

- Naturally aspirated diesel engine
- Mechanical in-direct injection fuel system
- Low noise, low fuel consumption, low maintenance
- Compact and easy to start
- Reliable power
- Water cooled
- Interim Tier-4 / Stage-V emission spec. reference
- Genuine Isuzu engine manufactured in Japan

## ENGINE PERFORMANCE

Engine Power	RPM	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
<b>Rated (kW / hp)</b>		8.6 / 11.5	9.8 / 13.1	10.9 / 14.6	12.0 / 16.1	13.2 / 17.7	14.0 / 18.8	14.8 / 19.8	15.2 / 20.4	15.8 / 21.2	16.3 / 21.9
<b>Continuous (kW / hp)</b>		7.3 / 9.8	8.3 / 11.2	9.3 / 12.4	10.2 / 13.7	11.2 / 15.0	11.9 / 16.0	12.6 / 16.9	12.9 / 17.3	13.4 / 18.0	13.9 / 18.6

## SPECIFICATIONS

### ENGINE

<b>Type:</b>	Vertical water-cooled 4-cycle Diesel
<b>Model (Manufacturer):</b>	3CA1-AZP01 (Isuzu)
<b>Emission Spec. Reference:</b>	Interim Tier-4 / Stage-V
<b>Max. Rated Output:</b>	16.3 kW (21.9 hp) @ 3600 RPM
<b>Continuous Output:</b>	13.9 kW (18.6 hp) @ 3600 RPM
<b>Max. Torque</b>	48.5 Nm @ 2600 RPM
<b>Displacement:</b>	0.854 L
<b>Combustion System:</b>	In-direct Injection (Naturally Aspirated)
<b>O/A Dimensions:</b>	524 (L) x 457 (W) x 576 mm (H)
<b>Dry Weight:</b>	98 kg
<b>Fuel Consumption:</b>	5.6* L/h @ 100% load

\*Based on diesel fuel with a specific gravity of 0.835 kg/m<sup>3</sup> 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
  - Heavy duty full aluminium cooling system (max. 45°C)
  - 12V complete electrical system (incl. engine harness and stop solenoid)
- 2. Economy (ECY) Features include STR plus:**
  - Medium duty air cleaner system
  - Skid rail chassis mounting
  - Mechanical vernier throttle kit
  - IP65 'ECO' engine controller (essential watchdog protection)
- 3. Premium (PRM) Features include ECY plus:**
  - Air cleaner restriction indicator
  - Air cleaner rain/inlet hood
  - Residential grade exhaust system
  - High performance heavy duty cooling system (50°C +)
  - 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 and fuel pump)

### 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

- Metal air cleaner system
- Heat Exchanged cooling package
- Premium pump pressure transducer range
- Longer application skid for mounting of auxiliary items
- Flywheel stub shafts
- Auxiliary PTO crankshaft pulley
- 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