

**POWER UNITS**  
**3CA1**  
**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

\*Note, some options may not be available on all engine models. Some options are already standard fitment on some engine models. Our goods and services come with guarantees that cannot be excluded under the Australian Consumer Law. For major failures with the service, you are entitled: To cancel your service contract with us; and to a refund for the unused portion, or to compensation for its reduced value. You are also entitled to choose a refund or replacement for major failures with goods. If a failure with the goods or a service does not amount to a major failure, you are entitled to have the failure rectified in a reasonable time. If this is not done you are entitled to a refund for the goods and to cancel the contract for the service and obtain a refund of any unused portion. You are also entitled to be compensated for any other reasonably foreseeable loss or damage from a failure in the goods or service. This warranty is given by Isuzu Australia Limited, ABN 97 006 962 572 (IAL) whose business address is 66 Foundation Road, Truganina, VIC 3029. IAL's telephone number is 1800 035 640. For further information on Isuzu warranties please visit [www.powersolutions.isuzu.com.au](http://www.powersolutions.isuzu.com.au). The information in this leaflet was correct at time of printing, but all measurements, specifications and equipment are subject to change without notice. Some equipment may have been changed and/or is available at extra cost. IAL may make changes at any time without notice, in prices, colours, materials, equipment and models. IAL makes all reasonable attempts to ensure the availability of all engines and equipment. The information in this leaflet is general in nature. Your Isuzu dealer can confirm all measurements, specifications and engine/equipment availability upon request. ARK010 06/21