

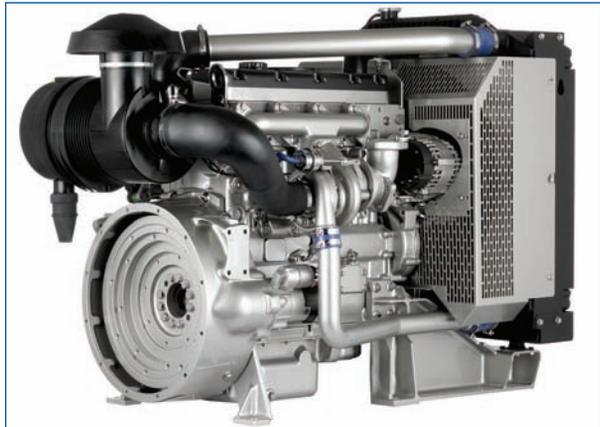


# 1100 Series

## 1104D-44T

Diesel Engine - Industrial Open Power Unit

66 kW/88.5 bhp



### Powered by your Needs

- The 1104D-44T IOPU offers a choice of build configurations to match the power needs of customers for a diverse range of applications.

### State of the Art Design

- The 1104D utilises the latest diesel mechanical controlled fuel system technology. This allows the 1104D-44T to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection.

### Reduced Noise

- Noise minimised at source - engine sound levels have been reduced by 2 dBA.
- Reduction in noise suppression costs.

### Component Commonality

- Shared front and rear ends and 'repeated' components - pistons, con rods and valve gear.
- Rationalised inventory, streamlined training and consistent serviceability.

### Lower Installation Costs

- Virtually identical hook-up points and envelope size as the 1104C-44TA.
- Customer enjoys a seamless transition during the emissions changeover process.

### Lower Operating Costs

- The 1104D maintains Tier 2/Stage II fuel economy, allowing customers to keep existing fuel tanks.
- Service intervals are 500 hours standard.
- Perkins comprehensive warranty cover for two years with three years on major engine components.
- Low usage warranty package is also available.

### Product Support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory - strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world

The 1104D-44T IOPU is a new addition to the 1100 Series range of IOPU engines. These ultra clean engines are assembled on a new high technology production line. Frequent computerized checks during the production process ensure high build quality is maintained throughout.

The 1104D IOPU range of engines have a complete fuel system, air cleaner and radiator fitted as standard along with a choice of mechanical or electronic control system making these the ultimate power solution.

The 1100D range with their wide choice of build options, plus all the features and benefits, present a secure future for all our customers at Tier 3/Stage IIIA emissions legislation, and is the platform on which the long-term solution to Tier 4/Stage IIIB legislation will be built.

Engines certified to Tier 3/Stage IIIA emissions legislation.

| Engine Performance |          | Net Intermittent | Engine Speed | Pump Sets | Engine Speed |
|--------------------|----------|------------------|--------------|-----------|--------------|
| Max power          | (kW)     | 66.0             | 2200         | 56.1      | 2000         |
| Max power          | (bhp)    | 88.5             | 2200         | 75.2      | 2000         |
| Max torque         | (Nm)     | 392.0            | 1400         | 333.2     | 1400         |
| Max torque         | (lbf ft) | 289.1            | 1400         | 245.8     | 1400         |

Power for a run-in engine after 60 hours.  
 Net Intermittent = Intermittent service where maximum power and/or are, cyclic (time at full load not to exceed 50%).  
 Rating standard ISO/TR 14396.

# 1100 Series

## 1104D-44T IOPU

### Standard IOPU Specification

#### Air inlet

- Mounted air filter and turbocharger

#### Cooling system

- Fan (pusher or puller)
- Fan drive
- Radiator
- Water pump

#### Electrical equipment

- Alternator (12 or 24 volt)
- Starter motor (12 or 24 volt)

#### Flywheel and housing

- Flywheel
- SAE 3 flywheel housing

#### Fuel system

- Fuel filter

#### Lubrication system

- Oil cooler and filter
- Timing case oil filler

#### Mountings

- Engine mounting brackets

#### PTO

- SAE A or SAE B front PTO  
(142/280 Nm)

#### Starting aids

- Glow plugs

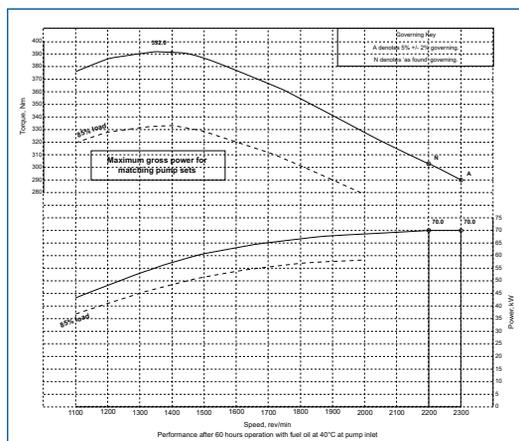
#### Literature

- User's Handbook

### Option Groups

The 1104D-44T IOPU offers a wide choice of standard build specifications to meet specific customer needs:

- 12 or 24 volt alternator
- Pusher or puller fan
- SAE A or SAE B front PTO  
(142/280 Nm)  
SAE B provides 63 kW/85 hp
- Air compression



### General Data

|                                   |   |
|-----------------------------------|---|
| Number of cylinders               | 4 in-line   |
| Bore and stroke                   | 105 mm x 127 mm                                   |
| Displacement                      | 4.4 litres  |
| Aspiration                        | Turbocharged                                      |
| Cycle                             | 4 stroke  |
| Combustion system                 | Direct injection                                  |
| Compression ratio                 | 18:2  |
| Direction of rotation             | Anti-clockwise, viewed on flywheel                |
| Cooling system                    | Liquid  |
| Total lubrication system capacity | 8.4 litres  |
| Total coolant capacity            | 15 litres   |
| Dimensions                        | Length 1277 mm<br>Width 687.4 mm<br>Height 965 mm |
| Dry weight                        | 536 kg  |

Final weight and dimensions will depend on completed specification



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