

# Product Specifications for 403A-11G

Gross Mechanical Output	8.6-9.5 kWm
Typical Electrical Output	9-10 kVA (7.2-8 kWe)
Rated Speed	1500 rpm
Prime	9 kVA
Standby	10 kVA
Emissions	Fuel Optimised
Number of Cylinders	3 inline
Bore	77 mm
Stroke	81 mm
Displacement	1.1 l
Compression Ratio	23.0:1
Aspiration	Naturally Aspirated
Combustion System	Indirect Injection
Rotation from Flywheel End	Anti-clockwise
Cooling System	Liquid

Typical Alternator Efficiency

86%

Switchable

No

Length

775 mm

Width

438 mm

Height

702 mm

Dry Weight

129 kg

Note 1


\*Final dimensions dependent on selected options

Prime Power

Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.


Standby Power


Power available at variable load in the event of a main power network failure. No overload is permitted.

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## 403A-11G Standard Equipment

### Air inlet system

Mounted air filter

### Control system

12 volt Electronic Shut Off Solenoid (ESOS) energised to run

12 volt starter motor and 12 volt 15 amp alternator with DC output

Glow plug cold start aid and heater/starter switch

Oil pressure and coolant temperature switches

### Cooling system

Thermostatically-controlled system with belt driven coolant pump and pusher fan

Mounted radiator, piping and guards

### Flywheel and flywheel housing

Flywheel housing SAE 5 long

High inertia flywheel to SAE J620 Size 165.1 mm (6½ in) heavy

### Fuel system

Mechanically governed cassette type fuel injection pump

Split element fuel filter


### General


Front and rear engine mounting brackets

### Oil system


Spin-on full flow lub oil filter


Wet steel sump with filler and dipstick

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### Product Specifications for 403A-15G

Gross Mechanical Output	12-18 kWm
Typical Electrical Output	13-19.5 kVA (10-15.6 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	13.1-14.7 kVA
Standby	14.5-16.2 kVA
Prime	14 kW <sub>e</sub>
Standby	15.6 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	3 inline
Bore	84 mm
Stroke	90 mm
Displacement	1.5 l
Compression Ratio	22.5:1
Aspiration	Naturally aspirated
Combustion System	Indirect injection

Cooling System Liquid

Aftertreatment -

Typical Alternator Efficiency 87%

Switchable Available for some power nodes

Length 820 mm

Width 469 mm

Height 793 mm

Dry Weight 197 kg

Note 1 \*Final dimensions dependent on selected options

**Prime Power** Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

**Standby Power** Power available at variable load in the event of a main power network failure. No overload is permitted.

## 403A-15G Standard Equipment

Air inlet system

Mounted air filter

Control system

12 volt Electronic Shut Off Solenoid (ESOS) energised to run

12 volt starter motor and 12 volt 15 amp alternator with DC output

Glow plug cold start aid and heater/starter switch

Oil pressure and coolant temperature switches

Cooling system

Thermostatically-controlled system with belt driven coolant pump and pusher fan

Mounted radiator, piping and guards

Flywheel and flywheel housing

Flywheel housing SAE 4 long

High inertia flywheel to SAE J620 Size 190.5 mm (7½ in) heavy

Fuel system

Mechanically governed cassette type fuel injection pump

Split element fuel filter

General

Front and rear engine mounting brackets

Oil system

Spin-on full flow lubrication oil filter

Wet steel sump with filler and dipstick

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## Product Specifications for 404A-22G

Gross Mechanical Output	18-20 kWm
Typical Electrical Output	20-22 kVA (16-18 kW <sub>e</sub> )
Rated Speed	1500 rpm
Prime	20 kVA
Standby	22.1 kVA
Emissions	Fuel Optimised
Number of Cylinders	4 inline
Bore	84 mm
Stroke	100 mm
Displacement	2.2 l
Compression Ratio	23.3:1
Aspiration	Naturally aspirated
Combustion System	Indirect injection
Rotation from Flywheel End	Anti-clockwise
Cooling System	Liquid

Typical Alternator Efficiency

87%

Switchable

No

Length

948 mm

Width

498 mm

Height

841 mm

Dry Weight

242 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

Standby Power

Power available at variable load in the event of a main power network failure. No overload is permitted.

### 404A-22G Standard Equipment

Air inlet system

Mounted air filter

Control system

12 volt Electronic Shut Off Solenoid (ESOS) energised to run

12 volt starter motor and 12 volt 15 amp alternator with DC output

Glow plug cold start aid and heater/starter switch

Oil pressure and coolant temperature switches

Cooling system

Thermostatically-controlled system with belt driven coolant pump and pusher fan

Mounted radiator, piping and guards

Flywheel and flywheel housing

Flywheel housing SAE 4 long

High inertia flywheel to SAE J620 Size 190.5 mm (7½ in) heavy

Fuel system

Mechanically governed cassette type fuel injection pump

Split element fuel filter

General

Front and rear engine mounting brackets

Oil system

Spin-on full flow lubrication oil filter

Wet steel sump with filler and dipstick

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## Product Specifications for 1103A-33G

Gross Mechanical Output	28 - 36.5 kWm
Typical Electrical Output	30-38 kVA (24-31 kWe)
Rated Speed	1500/1800 rpm
Prime	30 kVA
Standby	33 KVA
Prime	27.9 kWe
Standby	30.6 kWe
Emissions	Fuel Optimised
Number of Cylinders	3 vertical inline
Bore	105 mm
Stroke	127 mm
Displacement	3.3 l
Compression Ratio	19.25:1

**Aspiration**

Naturally aspirated

**Combustion System**

Direct injection

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Rotation from Flywheel End

Anti-Backfire

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

87%

Switchable

Yes

Length

1000 mm

Width

629 mm

Height

951 mm

Dry Weight

412 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.

Standby Power

Limited to 500 hours annual usage with an average load factor of 80% of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power.

## 1103A-33G Standard Equipment

### Air inlet system

Mounted air filter

### Control system

12 volt starter motor and 12 volt 65 amp alternator with DC output

12 volt shutdown solenoid energised to run

### Cooling system

Mounted radiator and piping

Thermostatically controlled system with gear driven circulation pump and belt driven pusher fan

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 10/11½

SAE 3 flywheel housing

### Fuel system

Next generation fuel filter

Rotary type pump

### General

Front engine mounting brackets

### Oil system

Wet sump with filler and dipstick

Spin-on oil filter

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## Product Specifications for 1103A-33TG

Gross Mechanical Output	42 - 70 kWm
Typical Electrical Output	45-75 kVA (36-60 kWe)
Rated Speed	1500/1800 rpm
Prime	45 - 60 kVA
Standby	50 - 66 kVA
Prime	43 - 55 kWe
Standby	47- 60 kWe
Emissions	Fuel Optimised
Number of Cylinders	3 vertical inline
Bore	105 mm
Stroke	127 mm
Displacement	3.3 l
Compression Ratio	17.3:1

Aspiration

Turbocharged

Combustion System

Direct injection

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Rotation from Flywheel End

Anticlockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

89%

Switchable

Yes

Length

1150 mm

Width

760 mm

Height

1300 mm

Dry Weight

420 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power

Limited to 500 hours annual usage, up to 300 hours of which may be continuous running. No overload is permitted.

## 1103A-33TG Standard Equipment

### Air inlet system

Mounted air filter

### Control system

12 volt starter motor and 12 volt 65 amp alternator with DC output

12 volt shutdown solenoid energised to run

### Cooling system

Mounted radiator and piping

Thermostatically controlled system with gear driven circulation pump and belt driven pusher fan

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 10/11½

SAE 3 flywheel housing

### Fuel system

Next generation fuel filter

Rotary type pump

### General

Front engine mounting brackets

### Oil system

Wet sump with filler and dipstick

Spin-on oil filter

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## Product Specifications for 1104A-44TG

Gross Mechanical Output	59.6 -94.5 kWm
Typical Electrical Output	65-100 kVA (52-80 kWe)
Rated Speed	1500/1800 rpm
Prime	65-80 kVA
Standby	71.5-88 kVA
Prime	60.8-73 kWe
Standby	66.9-80.3 kWe
Emissions	Fuel Optimised
Number of Cylinders	4 vertical inline
Bore	105 mm
Stroke	127 mm
Displacement	4.4 l
Compression Ratio	17.25:1

Aspiration

Turbocharged

Combustion System

Direct injection

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Rotation from Flywheel End

Anticlockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

89%

Switchable

Yes

Length

1241 mm

Width

629 mm

Height

951 mm

Dry Weight

463 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

Standby Power

Power available at variable load in the event of a main power network failure. No overload is permitted.

## 1104A-44TG Standard Equipment

### Air inlet system

Mounted air filter

### Control system

12 volt starter motor and 12 volt 65 amp alternator with DC output

12 volt shutdown solenoid energised to run

### Cooling system

Mounted radiator and piping

Thermostatically controlled system with gear-driven circulation pump and belt-driven pusher fan

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 10/11½

SAE 3 flywheel housing

### Fuel system

Ecoplus fuel filter

Rotary type pump

### General

Glow plug cold start aid

### Oil system

Wet sump with filler and dipstick

Spin-on oil filter

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## Product Specifications for 1104C-44TG

Gross Mechanical Output	56-62 kWm
Typical Electrical Output	60-67 kVA (48-53 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	60.4 kVA
Standby	66.7 kVA
Prime	54.3 kW <sub>e</sub>
Standby	60 kW <sub>e</sub>
Emissions	EU Stage II/U.S. EPA Tier 2
Number of Cylinders	4 inline
Bore	105 mm
Stroke	127 mm
Displacement	4.4 l
Compression Ratio	18.2:1

Aspiration

Turbocharged

Combustion System

Direct injection

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Rotation from Flywheel End

Anticlockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

90%

Switchable

Yes

Length

1239 mm

Width

615 mm

Height

951 mm

Dry Weight

401 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

Standby Power

Power available at variable load in the event of a main power network failure. No overload is permitted.

## 1104C-44TG Standard Equipment

### Air inlet system

Mounted air filter

### Control system

12 volt shutdown solenoid energised to run

12 volt starter motor and 12 volt 65 amp alternator with DC output

### Cooling system

Mounted radiator and piping

Thermostatically controlled system with gear driven circulation pump and belt driven pusher fan

### Flywheels and flywheel housing

Flywheel to SAE J620 size 10/11½

SAE No. 3 flywheel housing

### Fuel system

Ecoplus fuel filter

Rotary type pump

### General

Glow plug cold start aid

### Oil system

Cast iron sump with filler and dipstick

Spin-on oil filter

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### Product Specifications for 1106A-70TAG

Gross Mechanical Output	140-204 kWm
Typical Electrical Output	150-220 kVA (120-176 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	150.0-200 kVA
Standby	165.0-220 kVA
Prime	132.0-156.8 kW <sub>e</sub>
Standby	146.5-173 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	105 mm
Stroke	135 mm
Displacement	7.01 l
Compression Ratio	16:1-18.2:1

**Aspiration**

Turbocharged aftercooled

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Direct injection

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Rotation from Flywheel End

Anti-clockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

91-92%

Switchable

Yes

Length

1706 mm

Width

756 mm

Height

1092 mm

Dry Weight

743 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Unlimited hours usage, with an average load factor of 80% over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours operation.

Standby Power

Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

## 1106A-70TAG Standard Equipment

### Air inlet system

Air cleaner and brackets  
Exhaust manifold  
Induction manifold

### Cooling system

Tropical radiator pipes and guards

### Control system

Alternator  
Starter motor

### Flywheels and flywheel housing

Flywheel and starter ring

### Fuel system

Fuel filter

### General

Cold start aid  
Engine mountings

### Oil system

Lubricating oil sump  
Oil filters

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## Product Specifications for 1106A-70TG

Gross Mechanical Output	127-160 kWm
Typical Electrical Output	135-169 kVA (108-135 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	135 kVA
Standby	150 kVA
Prime	121.5 kW <sub>e</sub>
Standby	135 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	105 mm
Stroke	135 mm
Displacement	7 l
Compression Ratio	18.2:1

Aspiration

Turbocharged

Combustion System

Direct injection

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Rotation from Flywheel End

Anticlockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

91%

Switchable

No

Length

1648 mm

Width

760 mm

Height

1092 mm

Dry Weight

739 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Unlimited hours usage, with an average load factor of 80 percent over each 24 hour period. A 10 percent overload is available for 1 hour in every 12 hours operation.

Standby Power

Limited to 500 hours annual usage, with an average load factor of 80 percent of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power.

## 1106A-70TG Standard Equipment

### Air inlet system

Air cleaner and brackets  
Exhaust manifold  
Induction manifold

### Control system

Alternator  
Starter motor

### Cooling system

Tropical radiator pipes and guards

### Flywheels and flywheel housing

Flywheel and starter ring

### Fuel system

Fuel filter

### General

Cold start aid  
Engine mountings

### Oil system

Lubricating oil sump  
Oil filters

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## Product Specifications for 1206A-E70TTAG

Gross Mechanical Output	186 -248.5 kWm
Typical Electrical Output	200-275 kVA (160-220 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	200-250 kVA
Standby	225-275 kVA
Prime	180 kW <sub>e</sub>
Standby	200 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	105 mm
Stroke	135 mm
Displacement	7.01 l
Compression Ratio	15.8:1

### Aspiration

Twin turbocharged aftercooled

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Rotation from Flywheel End

Anti-clockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

89.5-92%

Switchable

Yes

Length

1878 mm

Width

949 mm

Height

1426 mm

Dry Weight

797 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

Standby Power

Power available at variable load in the event of a main power network failure. No overload is permitted.

## 1206A-E70TTAG Standard Equipment

### Air inlet system

Standard air cleaners

### Cooling system

50:50 water glycol mix

Tropical radiator as standard ensures optimal cooling performances all year round in any state

### Control system

Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments

### Flywheels and flywheel housing

SAE No. 2 flywheel housing

### Fuel system

Electronic high pressure common rail

Innovative filter design - ensures maximum protection of the engine

### Oil system

Flat bottomed, isolated, aluminum sump

### Standard emissions control equipment

NRS – NOx Reduction System

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## Product Specifications for 1506A-E88TAG

Gross Mechanical Output	192-358 kWm
Typical Electrical Output	207-389 kVA (166-312 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	207-308 kVA
Standby	228-337 kVA
Prime	198-282 kW <sub>e</sub>
Standby	218-312 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	112 mm
Stroke	149 mm
Displacement	8.8 l
Compression Ratio	16.1:1

### Aspiration

Turbocharged aftercooled

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Direct injection

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Rotation from Flywheel End

Anti-clockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

92%

Switchable

Yes

Length

1941 mm

Width

1013 mm

Height

1366 mm

Dry Weight

1156 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Variable load. Unlimited hours usage with an average load of 70% of the published prime power rating. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power

Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload is permitted.

## 1506A-E88TAG Standard Equipment

### Air inlet system

Mounted air filter and turbocharger

### Cooling system

Air-to-air charge cooler incorporated in radiator

Mounted belt driven pusher fan

Radiator supplied loose with all guards and pipes

Thermostatically controlled with belt driven, circulating pump and belt-drive fan

### Electrical equipment

24 volt starter motor and 24 volt 45 amp alternator with DC output

ECM mounted on engine with wiring looms and sensors

### Flywheels and flywheel housing

Aluminium SAE 1 flywheel housing

High inertia flywheel to SAE 1 J620 Size 355.6 mm (14 in)

### Fuel system

Electronic governing to ISO 8528-5 with stand-alone isochronous and load-sharing capabilities

Fuel filter, fuel transfer pump, fuel priming pump

HEUI fuel system with full authority electronic control

Spin on primary, secondary and water filter separator

### Mountings

Front engine mounting bracket

### Oil system

Full flow spin-on filters

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Full aluminium sump with filler and dipstick

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## Product Specifications for 1706A-E93TAG

Gross Mechanical Output	276 - 358 kWm
Typical Electrical Output	307 - 395 kVA (246 - 316 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	307-347 kVA
Standby	339-384 kVA
Prime	286 kW <sub>e</sub>
Standby	316 kW <sub>e</sub>
Emissions	Fuel optimised
Number of Cylinders	6 vertical inline
Bore	115 mm
Stroke	149 mm
Displacement	9.29 l
Compression Ratio	16.5:1

### Aspiration

Turbocharged aftercooled

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Direct injection

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Rotation from Flywheel End

Anti-clockwise

Cooling System

Liquid

Aftertreatment

-

Typical Alternator Efficiency

92%

Switchable

Yes

Length

2083 mm

Width

1091 mm

Height

1311 mm

Dry Weight

1070 kg

Note 1

\*Final dimensions dependent on selected options

Prime Power

Unlimited hours usage with an average load factor of 70% of the published prime

Standby Power

Limited to 500 hours annual usage with an average load factor of 70% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

## 1706A-E93TAG Standard Equipment

### Air inlet system

Standard air cleaners

### Cooling system

Tropical radiator as standard ensures optimal cooling performances all year round in any state

50:50 water glycol mix

### Control system

Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Full electronic control system. All connectors and wiring looms waterproof and designed to withstand harsh environments

### Flywheels and flywheel housing

SAE1 flywheel housing

### Fuel system

Electronic high pressure common rail

Fuel filter, fuel transfer pump, fuel priming pump

Aluminium sump

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## Product Specifications for 2206A-E13TAG

Gross Mechanical Output	324-461 kWm
Typical Electrical Output	350-500 kVA (280-400 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	350-400 kVA
Standby	400-450 kVA
Prime	320-350 kW <sub>e</sub>
Standby	350-400 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
Compression Ratio	16.3:1
Aspiration	Turbocharged and air-to-air charge cooled
Combustion System	Direct injection

Rotation from Flywheel End Anti-clockwise

Cooling System Liquid

Aftertreatment -

Typical Alternator Efficiency 92%

Switchable Yes

Length 2410 mm

Width 1120 mm

Height 1725 mm

Dry Weight 1478 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Variable load, Unlimited hours usage with an average load factor of 70% of the published prime power rating over each 24 hour period, A 10% overload is available for 1 hour in every 12 hours of operation.

**Standby Power** Variable load, Limited to 500 hours annual usage up to 300 hours of which may be continuous running, No overload is permitted.

## 2206A-E13TAG Standard Equipment

### Air inlet system

Mounted air filter

### Cooling system

Gear-driven circulating pump

Mounted belt-driven pusher fan

Radiator incorporating air-to-air charge cooler, (supplied loose)

System designed for ambients up to 50°C (122°F)

### Electrical equipment

3 level engine protection system

24 volt starter motor and 24 volt 70 amp alternator with DC output

ECM mounted on engine with wiring looms and sensors

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 14

SAE 1 flywheel housing

### Fuel system

Fuel cooler

Governing to ISO 8528-5 class G2 with isochronous capability

Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control

Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator

### Mountings

Front engine mounting bracket

### Oil system

Full flow replaceable 'Ecoplus' filter

Oil cooler integral with filter header

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Wet sump with filler and dipstick

### Optional equipment

110 volt/240 volt immersion heater

Additional speed sensor

Air filter rain hood

Temperature and pressure sensors for gauges

Tool kit

Twin starters/facility for second starter

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## Product Specifications for 2206C-E13TAG

Gross Mechanical Output	324-406 kWm
Typical Electrical Output	350-438 kVA (280-350 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	350-400 kVA
Standby	400-450 kVA
Prime	350 kW <sub>e</sub>
Standby	320 kW <sub>e</sub>
Emissions	EU Stage II/U.S. EPA Tier 2
Number of Cylinders	6 vertical inline
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
Compression Ratio	16.3:1

### Aspiration

Turbocharged and air-to-air charge cooled

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Rotation from Flywheel End Anti-clockwise

Cooling System Liquid

Aftertreatment -

Typical Alternator Efficiency 92%

Switchable Yes

Length 2410 mm

Width 1120 mm

Height 1725 mm

Dry Weight 1478 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Variable load. Unlimited hours usage with an average load factor of 70% of the published prime power rating over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.

**Standby Power** Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running, No overload is permitted

## 2206C-E13TAG Standard Equipment

### Air inlet system

Mounted air filter

### Cooling system

Gear-driven circulating pump

Mounted belt-driven pusher fan

Radiator incorporating air-to-air charge cooler, (supplied loose)

System designed for ambients up to 50°C (122°F)

### Electrical equipment

3 level engine protection system

24 volt starter motor and 24 volt 70 amp alternator with DC output

ECM mounted on engine with wiring looms and sensors

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 14

SAE 1 flywheel housing

### Fuel system

Fuel cooler

Governing to ISO 8528-5 class G2 with isochronous capability

Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control

Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator

### Mountings

Front engine mounting bracket

### Oil system

Full flow replaceable 'Ecoplus' filter

Oil cooler integral with filter header

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Wet sump with filler and dipstick

### Optional equipment

110 volt/240 volt immersion heater

Additional speed sensor

Air filter rain hood

Temperature and pressure sensors for gauges

Tool kit

Twin starters/facility for second starter

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## Product Specifications for 2806A-E18TAG

Gross Mechanical Output	540-678 kWm
Typical Electrical Output	600-750 kVA (480-600 kWe)
Rated Speed	1500/1800 rpm
Prime	600-650 kVA
Standby	660-700 kVA
Prime	500-545 kWe
Standby	550-600 kWe
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Compression Ratio	14.5:1

### Aspiration

Parallel Turbocharged and air-to-air charge cooled

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Rotation from Flywheel End Anti-clockwise

Cooling System Liquid

Aftertreatment -

Typical Alternator Efficiency 92%

Switchable Yes

Length 2545 mm

Width 1536 mm

Height 1808 mm

Dry Weight 2050 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power rating over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours operation.

**Standby Power** Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload is permitted.

## 2806A-E18TAG Standard Equipment

### Air inlet system

Mounted air filter

### Cooling system

Gear-driven circulating pump

Low coolant level switch

Mounted belt-driven fan

Radiator incorporating air-to-air charge cooler, (supplied loose)

System designed for ambients up to 50°C (122°F)

### Electrical equipment

3 level engine protection system

24 volt starter motor and 24 volt 70 amp alternator with DC output

ECM mounted on engine with wiring looms and sensors

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 18

SAE '0' flywheel housing

### Fuel system

Fuel cooler

Governing to ISO 8528-5 class G2 with isochronous capability

Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control

Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator

### Mountings

Front engine mounting bracket

### Oil system

Full flow, replaceable 'Ecoplus' filter



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Oil cooler integral with filter header

Wet sump with filler and dipstick

## Optional equipment

110 volt/240 volt immersion heater

Additional speed sensor

Air filter rain hood

Electric hours counter

Temperature and pressure sensors for gauges

Tool kit

Twin starters/facility for second starter

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## Product Specifications for 2806A-E18TTAG

Gross Mechanical Output	623-821 kWm
Typical Electrical Output	706 - 938 kVA (565 - 750 kWe)
Rated Speed	1500/1800 rpm
Prime	706-770 kVA
Standby	780-850 kVA
Prime	642-680 kWe
Standby	710-750 kWe
Emissions	Fuel Optimised
Number of Cylinders	6 vertical inline
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Compression Ratio	14:01

### Aspiration

Parallel turbocharged and air-to-air charge cooled

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Rotation from Flywheel End Anti-clockwise

Cooling System Liquid

Aftertreatment -

Typical Alternator Efficiency 95%

Switchable Yes

Length 2538 mm

Width 1691 mm

Height 2126 mm

Dry Weight 2361 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

**Standby Power** Power available at variable load in the event of a main power network failure. No overload is permitted.

## 2806A-E18TTAG Standard Equipment

### Air inlet system

Mounted air filter

### Cooling system

Gear driven circulating pump

Low coolant level switch

Mounted belt driven pusher fan

Radiator incorporating air-to-air charge cooler, (supplied loose)

System designed for ambients up to 50°C (122°F)

### Electrical equipment

3 level engine protection system

24 volt starter motor and 24 volt 50 amp alternator with DC output

ECM mounted on engine with wiring looms and sensors

### Flywheels and flywheel housing

High inertia flywheel to SAE J620 size 14

SAE 1 flywheel housing

### Fuel system

Fuel cooler

Governing to ISO 8528-5 class G2 with isochronous capability

Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control

Replaceable fuel filter elements with primary filter/water separator

### Mountings

Front engine mounting bracket

### Oil system

Full flow replaceable filter

Oil cooler integral with filter header

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Wet sump with filler and dipstick


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## Product Specifications for 4006-23TAG

Gross Mechanical Output	531-886 kWm
Typical Electrical Output	595-1000 kVA (476-800 kWe)
Rated Speed	1500/1800 rpm
Prime	746-802 KVA
Standby	820-898 KVA
Baseload	595-637 kVA
Prime	600-722 kWe
Standby	660-800 kWe
Baseload	480-572 kWe
Emissions	Fuel Optimised
Number of Cylinders	6 inline
Bore	160 mm
Stroke	190 mm
Displacement	23 l

Aspiration	Turbocharged and air-to-air
Combustion System	Direct injection
Rotation from Flywheel End	Anti-clockwise
Cooling System	Liquid
Aftertreatment	-
Typical Alternator Efficiency	90-95%
Switchable	Yes
Length	2927 mm
Width	1690 mm
Height	2125 mm
Dry Weight	2524 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hours period. A 10% overload is available for

**Standby Power** Limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

**Baseload** Unlimited hours usage with an average load factor of 100% of the published baseload power. Overload is permitted on baseload power.



## 4006-23TAG Standard Equipment

### Air inlet system

Mounted air filter and turbocharger

### Cooling system

Radiator supplied loose incorporating air-to-air charge cooler

System designed for ambients up to 50°C (122°F)

Twin thermostats, water pump

### Electrical equipment

24V starter motor, 24V alternator with integral voltage regulator and DC output

High coolant temperature protection switch

Low oil pressure protection switch

Turbine inlet temperature protection

### Flywheel and housing

SAE '0' flywheel housing

SAE J620 size 18 flywheel

### Fuel system

Digital governing to ISO 8528-5 Class G2 with isochronous capability

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Direct fuel injection system with fuel in pump

Full flow spin-on filters

### Lubrication system

Full flow spin-on oil filters

Wet full aluminium sump with filler and dipstick

### Optional equipment

4 meter wiring harness

Exhaust counter flanges

Immersion heater

Secondary electric start

Single exhaust outlet pipe

Temperate radiator kit

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## Product Specifications for 4008-30TAG

Gross Mechanical Output	808-1105 kWm
Typical Electrical Output	900 - 1250 kVA (720 - 1000 kW <sub>e</sub> )
Rated Speed	1500 rpm
Prime	900-1125 kVA
Standby	1000-1250 kVA
Baseload	750-950 kVA
Emissions	Fuel Optimised
Number of Cylinders	8 inline
Bore	160 mm
Stroke	190 mm
Displacement	30.6 l
Compression Ratio	13.6:1
Aspiration	Turbocharged and air-to-air charge cooled
Combustion System	Direct injection


### Rotation from Flywheel End


Anti-clockwise

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Cooling System      Liquia

Aftertreatment      -

Typical Alternator Efficiency      95%

Switchable      No

Length      3468 mm

Width      2194 mm

Height      1920 mm

Dry Weight      4217 kg

**Note 1**      \*Final dimensions dependent on selected options

**Prime Power**      Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours operation

**Standby Power**      Limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

**Baseload**      Unlimited hours usage with an average load factor of 100% of the published baseload power. No overload is permitted on baseload power.

## 4008-30TAG Standard Equipment

### Air inlet system

Mounted air filters and turbochargers

### Cooling system

Crankshaft pulley for fan drive

Gear driven circulating pump

Twin thermostats

### Electrical equipment

24 volt combined high coolant temperature/low oil pressure switch

24 volt Electronic Shut Off Solenoid (ESOS) (energised to run)

24 volt starter motor and 24 volt/40 amp alternator with integral regulator and DC output

Overspeed switch and magnetic pickup

Turbine inlet temperature shutdown switch

### Flywheels and flywheel housing

Flywheel to SAE J620 size 18

SAE 0 flywheel housing

### Fuel system

Full flow spin-on fuel oil filters

Electronic governor to ISO 3046 Part 4 class A1

Unit fuel injectors with lift pump and hand stop control

### Oil system

Engine jacket water/lubricating oil temperature stabiliser

Full flow spin-on oil filters

Wet sump with filler and dipstick

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### Product Specifications for 4012-46TWG

Gross Mechanical Output	884-1396 kWm
Typical Electrical Output	989-1600 kVA (791-1280 kW <sub>e</sub> )
Rated Speed	1500/1800 rpm
Prime	1253-1500 kVA
Standby	1385-1600 kVA
Baseload	989-1079 kVA
Prime	1002-1200 kW <sub>e</sub>
Standby	1108-1280 kW <sub>e</sub>
Baseload	791-864 kW <sub>e</sub>
Emissions	Fuel Optimised
Number of Cylinders	12 Vee
Bore	160 mm
Stroke	190 mm
Displacement	45.8 l

Aspiration	Turbocharged and air-to-water
Combustion System	Direct injection
Rotation from Flywheel End	Anti-clockwise
Cooling System	Liquid
Aftertreatment	-
Typical Alternator Efficiency	96%
Switchable	No
Length	2255 mm
Width	3714 mm
Height	1780 mm
Dry Weight	4400 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.

**Standby Power** Limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

**Baseload** Unlimited hours usage with an average load factor of 100% of the published baseload power. No overload is permitted on baseload power.



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## 4012-46TWG Standard Equipment

### Air inlet system

Mounted air filter and turbochargers

### Cooling system

Powder coated radiator comprising: water radiator; fuel oil cooling (optional); all pipes, hoses and clips; fan; pulleys; fan belts and safety guards

System designed for ambients up to 50°C (122°F)

Two twin thermostats

### Electrical equipment

24 volt starter motor and 24 volt alternator with integral regulator and DC output

Overspeed switch and magnetic pickup

Turbine inlet temperature shutdown switch

Twin high coolant temperate shutdown switches

Twin low oil pressure shutdown switches

### Flywheels and flywheel housing

SAE 00 flywheel housing

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SAE J620 size 18 flywheel

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## Fuel system

Direct fuel injection system, fuel lift pump  
Full flow spin-on fuel oil filters

## Governing

Governing to ISO 8528-5 class G3 with isochronous capability

## Oil system

Engine jacket water/lubricating oil temperature stabiliser  
Full flow spin-on oil filters  
Wet sump with filler and dipstick





# Product Specifications for 4016-61TRG

<b>Gross Mechanical Output</b>	1269-2183 kWm
<b>Typical Electrical Output</b>	1400-2500 kVA (1120-2000 kWe)
<b>Rated Speed</b>	1500 rpm
<b>Prime</b>	1850-2250 kVA
<b>Standby</b>	2000-2500 kVA
<b>Baseload</b>	1400-1800 kVA
<b>Emissions</b>	Fuel Optimised
<b>Number of Cylinders</b>	16 Vee
<b>Bore</b>	160 mm
<b>Stroke</b>	190 mm
<b>Displacement</b>	61.1 l
<b>Compression Ratio</b>	13.0:1
<b>Aspiration</b>	Quad turbocharged and air-to-water charge cooled
<b>Combustion System</b>	Direct injection
<b>Rotation from Flywheel End</b>	Anti-clockwise
<b>Quality System</b>	ISO 9001



## 4016-61TRG Standard Equipment

### Air inlet system

Mounted air filter and turbochargers

### Cooling system

Powder coated radiator comprising: water radiator; air charge cooled radiator; fuel oil cooling (optional); all pipes, hoses and clips; fan; pulleys; fan belts and safety guards

System designed for ambients up to 50°C (122°F)

Two triple thermostats

### Electrical equipment

24 volt starter motor and 24 volt alternator with integral regulator and DC output

Air shut off valve wiring harness – fully wired

Turbine inlet temperature shutdown switch

Twin high coolant temperature shutdown switches

Twin low oil pressure shutdown switches

### Flywheels and flywheel housing

Flywheel to SAE J620 size 18, 533.4 mm (21 in)

SAE 00 flywheel housing

### Fuel system

Direct fuel injection system, fuel lift pump

Full flow spin-on fuel oil filters

### Governing

Governing to ISO 8528-5 class G2 with isochronous capability

### Oil system

Full flow spin-on oil filters

Wet sump with filler and dipstick





## Product Specifications for 4016TAG

Gross Mechanical Output	1270-1937 kWm
Typical Electrical Output	1463-2263 kVA (1170-1811 kW <sub>e</sub> )
Rated Speed	1500 rpm
Prime	1844-2058 kVA
Standby	2028-2263 kVA
Baseload	1463-1634 kVA
Emissions	Fuel Optimised
Number of Cylinders	16 Vee
Bore	160 mm
Stroke	190 mm
Displacement	61.1 l
Compression Ratio	13.6:1
Aspiration	Turbocharged and air-to-air charge cooled
Combustion System	Direct injection


### Rotation from Flywheel End


Anti-clockwise

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

Cooling System Liquia

Aftertreatment -

Typical Alternator Efficiency 96%

Switchable No

Length 3302 mm

Width 1723 mm

Height 2128 mm

Dry Weight 5570 kg

**Note 1** \*Final dimensions dependent on selected options

**Prime Power** Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hour operation.

**Standby Power** Limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

**Baseload** Unlimited hours usage with an average load factor of 100% of the published baseload power. No overload is permitted on baseload power.

## 4016TAG Standard Equipment

### Air inlet system

Mounted air filter and turbochargers

### Cooling system

Crankshaft pulley for fan drive

Twin gear driven circulating pumps

Two twin thermostats

### Electrical equipment

24 volt combined high coolant temperature/low oil pressure switch

24 volt Electronic Shut Off Solenoid (ESOS) energised to run

24 volt starter motor and 24 volt 40 amp alternator with integral regulator and DC output

Overspeed switch and magnetic pickup

Turbine inlet temperature shutdown switch

### Flywheels and flywheel housing

SAE 00 flywheel housing

SAE J620 size 18 flywheel

### Fuel system

Full flow spin-on fuel oil filters

Unit fuel injectors with lift pump and hand stop control

### Governing

Electronic governor to ISO 3046 Part 4 class A1

### Oil system

Engine jacket water/lubricating oil temperature stabiliser

Full flow spin-on oil filters

Wet sump with filler and dipstick

FAMCO  
هایپر صنعت



### Catalog for Perkins Series Diesel Generator

Powered by Perkins engine, it enjoys high stability, reliability, durability and long life with a wide range of power output (7-1800kW). It is widely used in the area of communication, industry, projects, mining, rescuing, military and so on. The series of 400, 1100, 1300, 2000, 4000 diesel engines are manufactured by UK Perkins or its Subordinate factory according to global quality standards. The global service net of Perkins can provide our customers with reliable and guaranteed service.

Gen-set Model	Prime Power		Standby Power		Engine	Alternator		
	kVA	kW	kVA	kW	Perkins	Stamford	Leroysoner	Mecc Alte
DP0007S	9	7	10	7.7	403D-11G	PI 044E	LSA 40 VS1	ECO28-2VS/4
DP0010S	13	10	14	11	403D-15G	PI 044F	LSA 40 VS2	ECO28-0S/4
DP0016S	20	16	22	17.6	404D-22G	PI144D	LSA 40 M5	ECO28-1LN/4
DP0024S	30	24	33	26.4	1103A-33G	PI 144G	LSA 42.2 L9	ECO28-VL/4
DP0036S	45	36	50	39.6	1103A-33TG1	UCI 224D	LSA 43.2 S25	ECO32-3S/4
DP0048S	60	48	66	52.8	1103A-33TG2	UCI 224E	LSA 43.2 M45	ECO32-2L/4
DP0052S	65	52	72	57.2	1104A-44TG1	UCI 224F	LSA 43.2 L65	ECO32-3L/4
DP0064S	80	64	88	70.4	1104A-44TG2	UCI 224G	LSA 43.2 L8	ECP34-1S/4
DP0075S	94	75	103	82.5	1006TG1A	UCI 274C	LSA 44.2 VS4	ECP34-2S/4
DP0080S	100	80	110	88	1004C-44TAG2	UCI 274C	LSA 44.2 VS4	ECP34-2S/4
DP0108S	135	108	149	118.8	1006TAG	UCI 274E	LSA 44.2 S75	ECP34-2L/4
DP0120S	150	120	165	132	1006TAG2	UCI 274F	LSA 44.2 M95	ECP34-2L/4
DP0145S	181	145	199	159.5	1106C-E66TAG4	UCI 274G	LSA 46.2 M3	ECO38-1SN
DP0160S	200	160	220	176	1306C-E87TAG3	UCI 274H	LSA 46.2 M5	ECO38-2SN
DP0182S	228	182	250	200.2	1306C-E87TAG4	UCD 274J	LSA 46.2 L6	ECO38-3SN
DP0200S	250	200	275	220	1306C-E87TAG6	UCD 274K	LSA 46.2 L6	ECO38-1LN
DP0280S	350	280	385	308	2206C-E13TAG2	HCI 444E	LSA 47.2 VS1	ECO38-3LN
DP0320S	400	320	440	352	2206C-E13TAG3	HCI 444F	LSA 47.2 S4	ECO40-1S
DP0364S	455	364	501	400.4	2506A-E15TAG1	HCI 544C	LSA 47.2 S5	ECO40-2S
DP0400S	500	400	550	440	2506A-E15TAG2	HCI 544C	LSA 47.2 M7	ECO40-3S
DP0440S	550	440	605	484	2806C-E18TAG1A	HCI 544E	LSA 47.2 L9	ECO40-1.5L

Gen-set Model	Prime Power		Standby Power		Engine	Alternator		
	kVA	kW	kVA	kW	Perkins	Stamford	Leroysoner	Mecc Alte
DP0480S	600	480	660	528	2806A-E18TAG1A	HCI 544E	LSA 47.2 L9	ECO40-1.5L
DP0520S	650	520	715	572	2806A-E18TAG2	HCI 544F	LSA 49.1 S4	ECO40-2L
DP0580S	725	580	798	638	4006-23TAG2A	LVI 634B	LSA 49.1 M6	Note: 1. bridge fuel tank (power under 520kW) 2. Deepsea controller(standard) 3. supply scope: diesel generator, controller, battery, battery connecting wire, exhaust pipe, flange, shock absorber, muffler, elbow, tools, documents etc
DP0640S	800	640	880	704	4006-23TAG3A	HCI 634G	LSA 49.1 M75	
DP0675S	844	675	928	742.5	4008TWG2	HCI 634H	LSA 49.1 L9	
DP0724S	905	724	996	796.4	4008TAG1A	HCI 634H	LSA 49.1 L10	
DP0800S	1000	800	1100	880	4008TAG2A	HCI 634J	LSA 50.2 S3	
DP1000S	1250	1000	1375	1100	4012-46TWG2A	LVI 634G	LSA 50.2 M6	
DP1080S	1350	1080	1485	1188	4012-46TAGA1	PI 734B	LSA 50.2 L7	
DP1200S	1500	1200	1650	1320	4012-46TAG2A	PI 734C	LSA 50.2 L8	
DP1360S	1700	1360	1870	1496	4012-46TAG3A	PI 734D	LSA 50.2 VL10	
DP1400S	1750	1400	1925	1540	4016TAG	PI 734E	LSA 51.2 S55	
DP1475S	1844	1475	2028	1622.5	4016TAG1A	PI 734E	LSA 51.2 S55	
DP1650S	2063	1650	2269	1815	4016TAG2A	PI 734F	LSA 51.2 M60	
DP1800S	2250	1800	2475	1980	4016-61TRG3A	PI 734G	LSA 51.2 VL85	

