



# JIMEN POWER

Perkins  
Diesel Power



LEROY  
SOMER

meccalte



## 500 KVA

3 PHASE

## 50Hz

### GENERATING SET MODEL JP-500

#### Output Ratings

380-415 V, 3 ph, 50 Hz, 1500 rpm

#### Prime

500 KVA

400 KW

#### Standby

550 KVA

440 KW

380-415 V, 3 ph, 60 Hz, 1800 rpm

500 KVA

400 KW

563 KVA

450 KW

### ENGINE/ TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make

Perkins

Engine Model

2506A-E15TAG2

Governing Type

Electronic

Number of Cylinders

6

Cylinder Arrangement

Vertical in line

Bore and Stroke mm

137 X 171

Displacement/ Cubic Capacity litres

15.2

Induction System

Turbocharged, air to air charge cooled

Cycle

4 stroke

Combustion System

Direct Injection

Compression Ratio

16:1

Frequency and Engine Speed

50Hz & 1500rpm

60Hz & 1800rpm

Gross Engine Power kW(hp)

451(605)

495(664)

Fuel Consumption @50% load L/hr

50

52

@75% load L/hr

72

78

@100% load L/hr

95

102

Total Lubrication System Capacity litres

62

62

Total Coolant Capacity (inc. radiator) litres

58

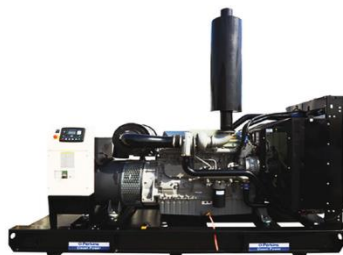
58

Exhaust Temperature: °C

500

550

Image is for illustrative purpose only



## 500 KVA

3 PHASE

## 60Hz

### ALTERNATOR DATA

Make

UPS/ Leroy Somer

Model

UPS354D/LSA (TAL) 47 C

No. of Bearings

1

Insulation class

H

Wires

6/12

Ingress Protection

IP23

Excitation System

Shunt

Winding Pitch

2/3

Overspeed

2250 mn<sup>-1</sup>

Voltage Regulation (steady)

±1%

### CONTROL PANEL

Make

DeepSea

Model

7000 Series

The DSE 7000 series is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

#### Metering and Alarm Indications:

- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L-L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Low DC Voltage
- CAN diagnostics and CAN fail/error

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# STANDARD SPECIFICATIONS

**500 KVA**

**3 PHASE 50Hz**

## 1. ENGINE

Perkins four stroke heavy duty high performance industrial type diesel engine.

## 2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
  - Two cartridge type fuel filter.
  - Full flow lube oil filter.
- All filters have replaceable elements.

## 3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

## 4. EXHAUST SYSTEM

**Exhaust gas flow** 31..3 (m3/min)  
**Maximum allowable back pressure** 18.0 (kPa)

## 5. CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

## 6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx.. 8 hours running at Full load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and the drain plug.

## 7. ALTERNATOR

### 7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermoset-Ting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection Against moisture or condensation.

### 7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains

The Voltage Regulation at  $\pm 1\%$ . Nominal adjustment by means of a trim pot incorporated on the AVR.

## 8. MOUNTING ARRANGEMENT

### 8.1 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

### 8.2 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine/Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

### 8.3 SAFETY GUARDS

The Fan & Fan Drive along with the battery Charging Alternator are Safety Guard protected for personnel protection.

**60Hz**

**500 KVA**

**3 PHASE**

## 9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective device control functions and site load conditions are simulated. The generator and its systems are checked before dispatch.

## 10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

## 11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning/ Fault Finding instruction leaflets are accompanied with the Generator.

## 12. QUALITY STANDARDS

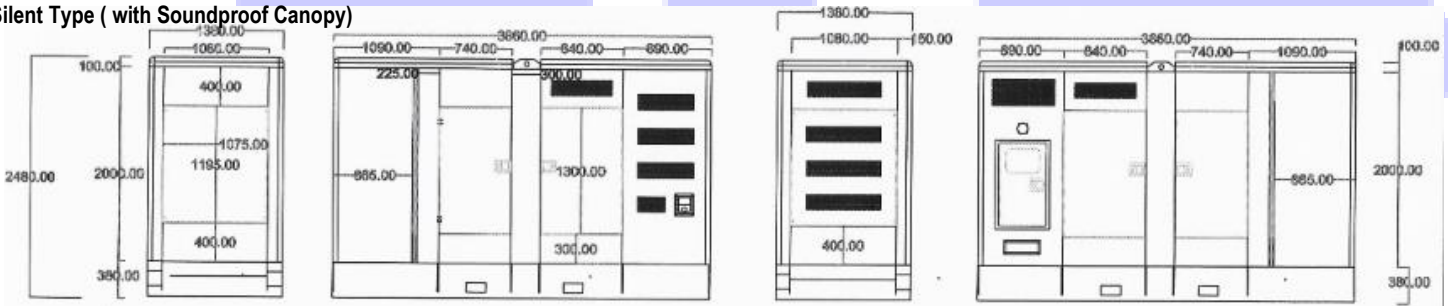
The equipment meets the following standards, BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

## 13. WARRANTY

All of the Generating sets are covered under a warranty policy For a period of 12 months or 1000 working hours. Warranty of the equipment is in line with manufacturers warranty terms & conditions. (check warranty statement for more details, as it may vary for different countries.)  
 In line with the continuous product development, we reserve The right to change specifications without notice.

## STANDARD GENERATOR DIMENSION AND WEIGHT

### Silent Type ( with Soundproof Canopy)



### Open Type ( without Soundproof Canopy)

