

## 8-4000kVA

Diesel Generator Sets



| POWERS     | PRP     |          | ESP         |      | PRIME      |
|------------|---------|----------|-------------|------|------------|
| VOLTAGE(V) | kW      | kVA      | kW          | kVA  | Amps       |
| 380/220    | 1360    | 1700     | 1496        | 1870 | 2583.0     |
| ALTERNATOR | LONGKAI | STAMFORD | LEROY SOMER |      | MECCALTE   |
| MODEL      | LK734D  | S7L1D-E4 | LSA52.3 S5  |      | ECO46 2S4A |

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## RENTAL RANGE

LONGKAI with quality certification ISO 9001,ISO 14001,ISO 45001

LONGKAI is compliant with EC mark which includes the following directives:

Verification to standard:

BS EN ISO 12100:2010,BS EN ISO 8528-13:2016,

BS EN 60204-1:2018,BS EN IEC 61000-6-2:2019,

BS EN IEC 61000-6-4:2019

Related to GBR regulation:

Supply of Machinery (Safety) Regulations 2008

Electromagnetic Compatibility Regulations 2016

Certification ECM mark:



Verification to standard:

EN ISO 3744:2010

Related to CE directive(s):

2000/14/EC (Noise)

The submitted products have been tested by us with the listed standards and found in compliance with the following European Directives:

The EMC Directive 2014/30/EU

EN 55012:2007+A1:2009

| POWERS     | PRP     |          | ESP         |      | PRIME      |
|------------|---------|----------|-------------|------|------------|
| VOLTAGE(V) | kW      | kVA      | kW          | kVA  | Amps       |
| 400/230    | 1360    | 1700     | 1496        | 1870 | 2453.8     |
| ALTERNATOR | LONGKAI | STAMFORD | LEROY SOMER |      | MECCALTE   |
| MODEL      | LK734D  | S7L1D-E4 | LSA52.3 S5  |      | ECO46 2S4A |

| POWERS     | PRP     |          | ESP         |      | PRIME      |
|------------|---------|----------|-------------|------|------------|
| VOLTAGE(V) | kW      | kVA      | kW          | kVA  | Amps       |
| 415/240    | 1360    | 1700     | 1496        | 1870 | 2365.1     |
| ALTERNATOR | LONGKAI | STAMFORD | LEROY SOMER |      | MECCALTE   |
| MODEL      | LK734D  | S7L1D-E4 | LSA52.3 S5  |      | ECO46 2S4A |



THREE PHASES



DIESEL



WATER-COOLED



50 HZ



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# LONGKAI®

Engine-SME



|                     |                          |
|---------------------|--------------------------|
| Model               | S16R-PTA-C               |
| Aspiration          | Turbocharged-Aftercooled |
| Cooling system      | Water-cooled             |
| No. cylinders       | 16                       |
| Displacement        | 65.37L                   |
| Bore*Stroke         | 170*180mm                |
| Compression ratio   | 14:1                     |
| Rated speed         | 1500r/min                |
| Gross Engine Output | 1450Kw                   |
| Governor type       | Electronic               |
| Start motor         | 24V                      |

|                                     |                        |
|-------------------------------------|------------------------|
| 100% (Prime power)                  | 365.06L/h              |
| 75% (Prime power)                   | 273.79L/h              |
| 50% (Prime power)                   | 182.53L/h              |
| Oil capacity High                   | 200L                   |
| Maximum Oil Temperature             | 110°C                  |
| Oil pressure                        | 0.2-0.64MPa            |
| Air intake restriction-dirty filter | 635mmH <sub>2</sub> O  |
| Air intake restriction-clean filter | 400mmH <sub>2</sub> O  |
| Intake air flow                     | 117m <sup>3</sup> /min |
| Exhaust gas flow                    | 309m <sup>3</sup> /min |
| Exhaust gas temp                    | TBD                    |
| Max back pressure                   | 600mmH <sub>2</sub> O  |
| Coolant capacity                    | 170L                   |
| Thermostat operation range          | 71-85°C                |
| Max top tank temperature            | 98°C                   |

- Diesel engine
- Water-cooled
- Electrical system

- Air filter
- Radiator
- Governor

- Hot protection
- Moving parts protection
- Radiator water level sensor (Optional).

## Alternator

|              |                        |
|--------------|------------------------|
| Wiring type  | 3 Phase 4 Pole, Y type |
| Bearing      | 1                      |
| Power factor | 0.8                    |
| Frequency    | 50Hz                   |
| Overspeed    | 2250                   |

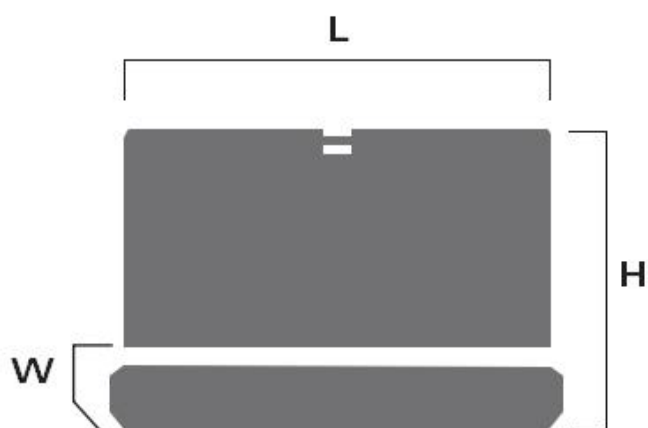
|                    |               |
|--------------------|---------------|
| Exciter type       | Brushless     |
| Voltage regulation | ± (0.25%~1% ) |
| Protection grade   | IP 23         |
| Insulation class   | H             |
| Altitude(m)        | ≤1000         |



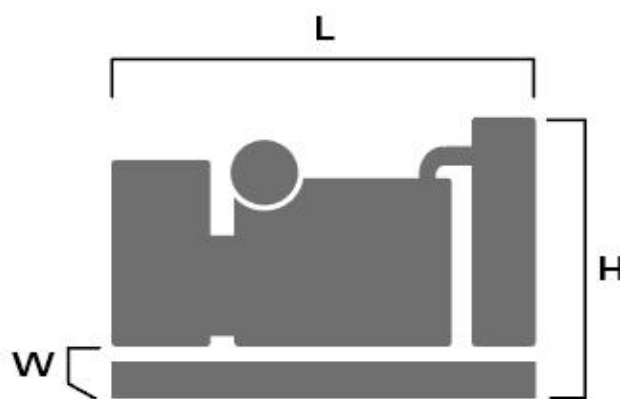
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**LONGKAI**  
POWER SOLUTIONS

## DIMENSIONS



Silent Type



Open Type

## WEIGHT AND DIMENSIONS

|                 | Length | Width | Height | Weight | Fuel tank | sound level |
|-----------------|--------|-------|--------|--------|-----------|-------------|
|                 | (mm)   | (mm)  | (mm)   | (kg)   | (L)       | (dB(@7m))   |
| Open Type       | 4500   | 2210  | 2380   | --     | --        | ≤87         |
| Silent Type- SD | 40HQ   | 40HQ  | 40HQ   | --     | --        | ≤75         |



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## Configuration

|                          |                                                                 |   |
|--------------------------|-----------------------------------------------------------------|---|
| Standard Features        | Engine(SME)                                                     | ● |
|                          | Radiator 50°C max,fans are driven by belt                       | ● |
|                          | Charge alternator                                               | ● |
|                          | Alternator: single bearing alternator IP23,insulation class H/H | ● |
|                          | Standard auto control system                                    | ● |
|                          | One set of air filter, fuel filter, oil filter                  | ● |
|                          | MCCB                                                            | ● |
|                          | Fuel tank                                                       | ● |
|                          | Batteries, rack and cable                                       | ● |
|                          | Exhaust system(Ripple flex exhaust pipe, flange, muffler)       | ● |
|                          | User manual                                                     | ● |
|                          | Water oil separator                                             | ● |
| Options                  | Battery charge                                                  | ◎ |
|                          | Engine heater                                                   | ◎ |
|                          | Alternator heater                                               | ◎ |
|                          | PMG                                                             | ◎ |
|                          | Daily fuel tank                                                 | ◎ |
|                          | Remote control panel                                            | ◎ |
|                          | Automatic transfer switch/ATS                                   | ◎ |
|                          | Switch box                                                      | ◎ |
| ●Standard      ◎Optional |                                                                 |   |

## Protective functions

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| SME Engine | 12 months from date of purchase and 1000 hours.                         |
| Generator  | 12 months from date of purchase or 1000 hours (whichever occurs first). |



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# LONGKAI<sup>®</sup>



## *DEEPSEA DSE6120*

### Protective functions

- Low oil pressure
- High water temperature
- High/low voltage
- High Engine Temperature and Overspeed.
- Voltage regulator frequency regulator
- Emergency stop
- Start failure



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