

# Perkins Generator

**Prime: 510KW/638KVA**  
**Standby: 560KW/700KVA**

## Technical Data

| Model                      |       | 700kva |
|----------------------------|-------|--------|
| Prime power                | kva   | 638    |
|                            | kw    | 510    |
| Standby power              | kva   | 700    |
|                            | kw    | 560    |
| Rated voltage line to line | V     | 400    |
| Rated current              | A     | 920A   |
| Maximun sound level        | dB@7m | 75     |

## Engine-Perkins

|                   |                                                |                |
|-------------------|------------------------------------------------|----------------|
| Model             | 2806D-E18TAG1A                                 |                |
| Aspiration        | In line, Turbo charged,air to air chargecooled |                |
| Fuel system       | Direct injection                               |                |
| No. cylinders     | 6                                              |                |
| Displacement      | L                                              | 18,13          |
| Bore*Stroke       | mm                                             | 145x183        |
| Compression ratio | 18:1                                           |                |
| Rated speed       | r/min                                          | 1500           |
| Governor          | ECM                                            |                |
| Engine size       | mm                                             | 2405x1455x1805 |
| Engine wet weight | kg                                             | 2079           |
| Fire order        | 1-5-3-6-2-4                                    |                |
| Start Motor       | V                                              | 24             |
| Rotation          | Anti-clockwise, viewed on the flywheel         |                |

## Air inlet

|                       |     |     |
|-----------------------|-----|-----|
| Air inlet restriction | kpa | 3,7 |
| Max air restriction   | kpa | 6,2 |

## Fuel system

|                          |        |
|--------------------------|--------|
| type of injection system | MEUI   |
| fuel injector pressure   | 200MPa |

## Fuel System

|                                 |     |       |
|---------------------------------|-----|-------|
| 110% load(Standby power)        | L/h | 142,4 |
| 100% load(Prime power)          | L/h | 129,6 |
| 75% load(Prime power)           | L/h | 101,8 |
| 50% load(Prime power)           | L/h | 69,6  |
| Fuel capacity for silent genset | L   | 975   |

|                               |   |         |
|-------------------------------|---|---------|
| Fuel capacity for open genset | L | without |
|-------------------------------|---|---------|

### Lubrication System

|                                |       |     |
|--------------------------------|-------|-----|
| Oil capacity                   | L     | 71  |
| Min oil capacity in sump       | L     | 56  |
| Max oil capacity in sump       | L     | 61  |
| Oil flow                       | L/min | 174 |
| Oil temp (continous operation) | °C    | 113 |

### Cooling System

|                        |    |       |
|------------------------|----|-------|
| Total coolant capacity | L  | 55,6  |
| Max top tank temp      | °C | 107   |
| Fan diameter           | mm | 955   |
| Drive ratio            |    | 0.8:1 |
| Number of balde        |    | 9     |

### Standard Features

|                                            |   |
|--------------------------------------------|---|
| Engine(Perkins ENGINE)                     | ● |
| Radiator 50°C max,fans are driven by belt  | ● |
| 24V charge alternator                      | ● |
| Alternator: single bearing alternator IP23 | ● |
| insulation class H/H                       | ● |
| Standard auto control system               | ● |
| Main line circuit breaker / ACB            | ● |
| Base fuel tank                             | ● |
| 24V batteries, rac and cable               | ● |
| Exhaust system(Ripple flex exhaust pipe)   | ● |
| Exhaust siphon, flange, muffler            | ● |
| User manual                                | ● |
| Battery charge                             | ● |
| Water heater                               | ● |

### Options

|                                                |                       |
|------------------------------------------------|-----------------------|
| Alternator heater                              | <input type="radio"/> |
| One set of air filter, fuel filter, oil filter | <input type="radio"/> |
| PMG                                            | <input type="radio"/> |
| Water oil separator                            | <input type="radio"/> |
| Daily fuel tank                                | <input type="radio"/> |
| Remote control panel                           | <input type="radio"/> |
| Automatic transfer switch/ATS                  | <input type="radio"/> |
| Switch box                                     | <input type="radio"/> |
| Standard: ●                                    | Options:○             |

### Alternator

|                  |             |
|------------------|-------------|
| Model            | TAL-A47-F   |
| Alternator Brand | Leroy Somer |

|                    |     |                            |
|--------------------|-----|----------------------------|
| Phase              |     | 3                          |
| Voltage            | V   | 400                        |
| Wiring Type        |     | 6 wires                    |
| Bearing            |     | 1                          |
| Power factor       |     | 0,8                        |
| Frequency          | Hz  | 50                         |
| Prime power        | KVA | 660                        |
| Exciter Type       |     | Brushless, self-excitation |
| Voltage regulation | %   | ±0.5                       |
| Protection Grade   |     | IP 23                      |
| Insulation grade   |     | H                          |

### Controller-Deepsea

Model DSE 7320

7 configurable digital inputs

Built-in governor and AVR control

Base load (kW export) functionality

Mains (utility) de-coupling protection

Generator power (kW, kVA) monitoring

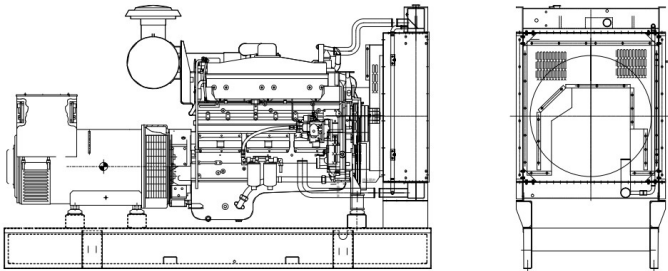
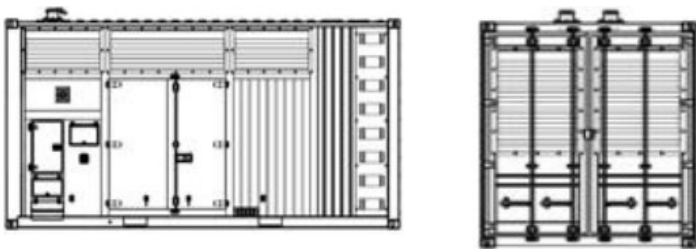
Overload (kW & kV Ar) protection

Emergency stop

Start failure



### Unit Dimensions(Basic unit)

|                                                                                      |    |                |
|--------------------------------------------------------------------------------------|----|----------------|
|  |    |                |
| <b>Open Type</b>                                                                     |    |                |
| L*W*H                                                                                | mm | 3850x1800x2050 |
| Weight                                                                               | kg | 4950           |
|  |    |                |
| <b>Silent Type</b>                                                                   |    |                |
| L*W*H                                                                                | mm | 4500x2000x2500 |
| Weight                                                                               | kg | 5815           |

## **Warranty**

### **Perkins Engine**

12 months from date of purchase or 1000 hours.

### **Generator**

12 months from date of purchase or 1000 hours

(whichever comes first).