

**GENERATOR MODEL: P 45**

Frequency/Speed - Voltage	50HZ/1500RPM-230/400V	
Prime Power	45 KVA	36 KW
Standby Power	50 KVA	40 KW



## Features:

- **Warranty: 1 year or 1000 hours.**
- **Low fuel shutdown safety (Optional).**
- **24/7 after sales support.**
- **Generator made by OEM Perkins-UK**
- **Perkins as the world's leading power Power manufacturer science 1932.**
- **Advance digital control system, Long service life, Easy to Operate, Low Fuel consumption, Anti vibrating Isolators.**
- **Automatic start (optional) ecofriendly.**
- **Easy and economical availability of Spares.**



### Engine

Perkins-UK, Model 1103A-33TG1, in accordance to ISO3046, ISO 8528, DIN 6271



### Alternator

Leroy Somer-France / Meccalte-UK Stamford UK Complying to the following Norms:CEE/CE12/3/EN60034-1 / IEC34-1/VDE



### Control Panel

Deep Sea DSE-4520, Made in UK, Complying to the norms: Comply to the norms BS EN 61000, BS EN 60950, BS EN 60068



### Fuel Tank

The overall fuel tank capacity of 45 KVA Perkins 120 LTR.



### Dimensions

L x W x H = 73"\*29"\*54"

# PERKINS ENGINE TECHNICAL DATA

MODEL: 1103A-33TG1



## STRUCTURE

<b>Number Of Cylinders</b>	3
<b>Engine Build</b>	In Line
<b>Bore</b>	105 mm
<b>Stroke</b>	127 mm
<b>Displacement</b>	3.3 L
<b>Compression Ratio</b>	17.25:1
<b>Aspiration</b>	Turbocharged
<b>Cooling</b>	Water Cooled
<b>Fuel Tank</b>	Built in fuel tank for at least 10 hours operation @ full load
<b>Fuel System</b>	75 % Direct Injection
<b>Fuel Recommended</b>	N° Diesel
	1500 RPM



## FUEL

<b>Delivery Flow Rate (l/hr)</b>	
<b>Fuel Consumption</b>	
100% Load (g/kwh-L/hr)	10.7
75% Load (g/kwh-L/hr)	8.2
50% Load (g/kwh-L/hr)	5.7



## COOLING SYSTEM

<b>Engine Coolant Capacity</b>	10.2 L
<b>Air Flow Radiator</b>	883.3 l/s
Radiator with 50 degree ambient	
Cooling Package & Air Cleaner	
Thermostatically-Cntroled	



## AIR INLET

<b>Air Intake Engine (Clean Filter/Dirty)</b>	3 / 6.5 KPa
Exhaust Gas Tempreature	492°C
Exhaust Gas Flow (Prime)	119.6 l/s
Maximum Exhaust System Back	



## EXHAUST SYSTEM

Pressure	10 Kpa
Stainless Steel Exhaust Flex	



**DC SYSTEM  
STARTING/CHARGING**



**HEAT REJECTION  
(PRIME)**

**LUBE SYSTEM**

**GOVERNOR**



**STRUCTURE**

<b>Cranking Battery Voltage</b>	<b>12 V</b>
<b>Battery Charging Alternator</b>	<b>65 A</b>
<b>DC Voltage Monitoring Via</b>	

<b>Radiated Heat to Ambient</b>	<b>7 KW</b>
<b>Heat Rejection to Coolant</b>	<b>26 KW</b>
<b>Heat Rejection to Exhaust</b>	<b>30 KW</b>
<b>Heat Rejection to intercooler</b>	<b>0</b>

**Lubricating Capacity: 7.9 LTRS**

<b>Mechanical</b>
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## **ALTERNATOR TECHNICAL DATA**



<b>Insulation System</b>	<b>Class H</b>
<b>Winding Pitch</b>	<b>2/3 to Minimize Harmonics effects</b>
<b>Number of Poles</b>	<b>4</b>
<b>Number of Bearings</b>	<b>Single Bearing</b>
<b>RPM</b>	<b>1500 RPM</b>
<b>Power Factor</b>	<b>0.8/1</b>
<b>Regulation</b>	<b>± 1%</b>
<b>Frequency</b>	<b>50 Hz</b>
<b>Voltage Range</b>	<b>380-415 / 220-240</b>
<b>IP Rating (Protection)</b>	<b>Ip23</b>

Synchronous, 3/1 phase, Brushless & Self Excited

**NOTE: Alternator Brand & Model Subject to Availability.**

# CONTROL MODULE

DEAP SEA MODEL: DSE 4520



## INDICATIONS

- ☑ Operating Hours
- ☑ 3 Phase Generator Voltage Sensing & Monitoring
- ☑ Current Protection & Monitoring
- ☑ Power Measurement (kW, kVA, kVA<sub>r</sub>, kWh, kVAh, kVA<sub>r</sub>h, pf)
- ☑ Frequency Monitoring (Hz)
- ☑ Oil Pressure/Coolant Temperature
- ☑ Battery Voltage Monitoring (DC)
- ☑ Alarm Acknowledge



## CONTROL

- ☑ Engine Cool Down Timer
- ☑ Emergency Stop Push button/ Alarm Acknowledge
- ☑ Warm-up Timer
- ☑ Load Switching Timer
- ☑ Engine Cycle Crank



## WARNING & SHUTDOWN ALARMS

- ☑ Generator Over/Under Voltage & Frequency
- ☑ Crank Disconnect (Failure to Start)
- ☑ Under/Over Speed
- ☑ Over Current
- ☑ Low Oil Pressure
- ☑ High Water Temperature
- ☑ Low Fuel Level
- ☑ Low Water Level



## FEATURES

- ☑ User Friendly
- ☑ Compatible With CAN Engines
- ☑ License Free Software
- ☑ Largest Backlit Icon Display In Its Class
- ☑ Fully Configured Via The Fascia Or Pc Using Usb
- ☑ Efficient Power Save Mode

**AUTHORIZED DEALER:**