

## SP45- GENSET

## Features

<b>Engine</b>	<b>Perkins</b>
Type	1103A-33TG1
Origin	UK
No. of Cylinders	3
Configuration	In-line
SAE/Flexible coupling	3/11.5"
Cycle	4-stroke
Bore, mm	105
Stroke, mm	127
Displacement, l	3.3
Compression ratio	17.25:1
Aspiration	Turbocharged
Injection	Mechanical
Starting	12VElectric
Alternator, amps	65/12V

<b>Alternator</b>	<b>Stamford</b>
Type	UC1224C/PI144F
Origin	UK/India
Construction	single bearing
Insulation system	Class"H"
Temperature rise, °C	125
Excitation	Self excited
Voltage Regulator	AVRSX460
Protection	IP 23
Rated power factor	0.8
Regulation	±1.5%
No. of Phases	3
No. of Poles	4
RPM	1500      1800
Frequency	50Hz      60Hz

Performances	1500rpm	1800rpm
<b>Engine</b>		
Efficiency		89%
Prime Power, KWm (hp)	41 (55)	49 (66)
Standby Power, KWm (hp)	45(61)	54 (72)

Fuel system	1500rpm	1800rpm
<b>Specific fuel consumption at:</b>		
Prime Power, Litre/h		
50%	4.86	5.88
75%	7.01	8.29
100%	9.21	10.75

**Circuit Breaker**

3Pole series MCCB adjustable, amps	60
CT's	60/5
(European origin, ABB or equivalent)	

**Documentation**

Engine instruction book-English
Warranty and service book- Multi-language
Alternator manual- English
Wiring diagram

**Dimensions and Weight**

Length: 1.9m
Width: 0.75m
Height: 1.15m
Weight: 850Kg

**Spare Parts Kit (Optional)****(Genuine Perkins)**

Oil filter, full flow	1
Fuel filter	1
Fuel pre-filter water separator	1
Air filter	1
Fan belt set	1
Alternator belt set	1

**International Standards**

Engine confirm to ISO 9001: 2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271.  
 Alternator confirm to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG1-32, IEC34 CSA C22.2-100, AS 1359, BS 6861-1, B En 61000-6-2:2001.

**Rating Guidelines**

PRIME POWER rating to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load with 70% load factor for an unlimited number of hours as opposed to commercially purchased power. A 10% overload capability for governing purpose is available for this rating.

MAXIMUM STANDBY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.

1 hp = 1KW x 1.36

KWm = Kilo Watt mechanical, net with fan

KWe= Kilo Watt electrical = KWm\*gen.eff

KVA = Kilo Volt Ampere calculations based based on 0.8 power factor = KWe/0.8

**Optional Equipment****• Engine**

- Coolant heater
- Manual oil drain pump
- Electric governor
- Oversize batteries
- Battery disconnect switch

**• Alternator**

- Upgrade to 3 phase sensing AVR
- Quadrature droop kit
- Anti-condensation heater
- Air inlet filters

**• General**

- Automatic transfer switch
- Battery charger
- Upgrade to 4 pole circuit breaker
- Fuel tank separate with customized capacity and shape
- Fuel level switch High / Low for alarm and control
- Fuel transfer pump Automatic / Manual
- Fuel tank air filter
- Residential grade silencer
- Weather protective and acoustic enclosure.

