

Features

Engine	Perkins
Type	4012-46TWG 2A
Origin	UK
No. of Cylinders	12
Configuration	V
SAE/Flexible coupling	0/18"
Cycle	4-stroke
Bore, mm	160
Stroke, mm	190
Displacement, l	45.84
Compression ratio	13.6:1
Aspiration	Turbocharged
Injection	Electronic
Starting	24V Electric
Alternator, amps	40/24V

Alternator	Stamford
Type	PI734A
Origin	UK
Construction	single bearing
Insulation system	Class "H"
Temperature rise, °C	125
Excitation	PMG
Voltage Regulator	AVR MX341
Protection	IP23
Rated power factor	0.8
Regulation	±1.0%
No. of Phases	3
No. of Poles	4
RPM	1500 1800
Frequency	50Hz 60Hz

Performances	1500rpm	1800rpm
Engine		
Efficiency		94%
Prime Power, KWm (hp)	1055 (1455)	1044 (1400)
Standby Power, KWm (hp)	1166 (1564)	1155 (1548)

Fuel system	1500pm	1800pm
Specific fuel consumption at:		
Prime Power, Litre/h		
50%	136	144
75%	198	206
100%	265	272



GENERATING SET POWERED BY PERKINS

SP1400-GENSET

Circuit Breaker

3Pole series ACB, amps	2000
CT's	2000/5
Steel sheet enclosure with bolted cover (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: 5.00 m
Width: 2.25 m
Height: 2.65 m
Weight: 9630 Kg

Spare Parts Kit (Optional)

(Genuine Perkins)

Oil filter, full flow	2
Oil filter, bypass	1
Fuel filter	1
Fuel filter water separator	1
Coolant filter	1
Air filter	2
Fan belt set	1
Alternator belt set	1

International Standards

Engine conform to ISO 9001: 2000, ISO 14001, ISO10054, ISO 3046, BS 5514, DIN 6271.
 Alternator conform 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
- Oversize batteries
- Extra fuel pre-filter water separator

• Alternator

- 12 wire reconnectable stator/terminal arrangement
- Upgrade to AVR MX321
- Anti-condensation heater
- Quadrature droop kit
- Air inlet filters

• General

- Upgrade to modular controller for paralleling
- Automatic transfer switch
- Upgrade to 4 pole ACB
- Fuel tank base frame integrated for 8 hours operation
- 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 or acoustic enclosure.