

SP100-GENSET

Features

Engine	Perkins
Type	1104C-44TAG2
Origin	UK
No. of Cylinders	4
Configuration	In-line
Cycle	4-stroke
Bore, mm	105
Stroke, mm	127
Displacement, l	4.41
Compression ratio	18.2:1
Aspiration	Turbocharged, air to air
Injection	Mechanical
Starting	12V Electric
Alternator, amps	24/12V

Alternator	Stamford
Type	UC1274C
Origin	UK
Construction	single bearing
Insulation system	Class "H"
Temperature rise, °C	125
Excitation	Self Excited
Voltage Regulator	A.V.R SX460
Protection	IP23
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
Engine		
Efficiency		
Prime Power, KWm (hp)	90.1 (120.8)	101.7 (136.3)
Standby Power, KWm (hp)	99.5 (133.4)	112.4 (150.7)

Fuel system	1500pm
Specific fuel consumption at:	
Prime Power, Litre/h	
50%	11.6 (3.1)
75%	17.4 (4.6)
100%	23.2 (6.1)



Circuit Breaker	
3Pole series MCCB adjustable, amps	160
CT's	160/5
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	1259 mm
Width	721 mm
Height	966 mm
Weight.....	550 kg

Spare Parts Kit (Optional)	(Genuine Perkins)
Oil filter, full flow	
Oil filter, bypass	
Fuel filter	
Fuel filter water separator	
Coolant filter	
Air filter	
Fan belt set	
Alternator belt set	
Engine Oil	

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**
 - Water heater jacket
 - Oversize batteries
 - Extra fuel pre filter water separator
 - **Alternator**
 - 12 wire reconnectable stator / Terminal arrangement
 - Upgrade to AVR MX321
 - Quadrature droop kit
 - Anti-condensation heater
 - Air inlet filters
 - **General**
 - Upgrade to modular controller for paralleling.
 - Automatic transfer switch
 - Battery charger
 - 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 acoustic enclosure.