

Features

Engine		Perkins	
Type		403C-15G	
Origin		UK	
No. of Cylinders		3	
Configuration		In-line	
SAE/Flexible coupling		4/7.5"	
Cycle		4-stroke	
Bore, mm		84	
Stroke, mm		90	
Displacement, l		1.5	
Compression ratio		22.5:1	
Aspiration		Naturally	
Injection		Mechanical	
Starting		12V Electric	
Alternator, amps		65/12V	
Alternator		Stamford	
Type		BCI164C/P1044F	
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
Engine		
Efficiency		89%
Prime Power, KWm (hp)	12 (16)	14 (19)
Standby Power, KWm (hp)	13 (17)	15 (21)

Fuel system	1500rpm	1800rpm
Specific fuel consumption at:		
Prime Power, Litre/h		
50%	1.73	1.96
75%	2.30	2.67
100%	3.02	3.53

Circuit Breaker

3 Pole series MCCB adjustable, amps	20
CT's	20/5
(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: 1.3m
 Width: 0.55m
 Height: 0.90m
 Weight: 400Kg

Spare Parts Kit (Optional)

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 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
 - Manual oil drain pump
 - Oversize batteries
 - Battery disconnect switch
- **Alternator**
 - 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.

