

At 1500rpm Prime Power 16KWe/20KVA, Standby Power 18KWe/22KVA

At 1800rpm Prime Power 18KWe/23KVA, Standby Power 20KWe/25KVA

GENERATING SET POWERED BY PERKINS

SP22-GENSET

Features

Engine	Perkins
Type	404C-22G
Origin	UK
No. of Cylinders	4
Configuration	In-line
SAE/Flexible coupling	4/7.5"
Cycle	4-stroke
Bore, mm	84
Stroke, mm	100
Displacement, l	2.2
Compression ratio	23.3:1
Aspiration	Naturally
Injection	Mechanical
Starting	12V Electric
Alternator, amps	65/12V

Alternator	Stamford
Type	BCI184E/PI144D
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)	18 (24)	21 (28)
Standby Power, KWm (hp)	20(27)	23 (32)

Fuel system	1500pm	1800pm
Specific fuel consumption at:		
Prime Power, Litre/h		
50%	2.52	2.88
75%	3.47	3.97
100%	4.63	5.25

Circuit Breaker

3Pole series MCCB adjustable, amps	30
CT's (European origin, ABB or equivalent)	30/5

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: 475Kg

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, ISO10054, 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
- 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.



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