

At 1500rpm Prime Power 584KWe/730KVA, Standby Power 640KWe/800KVA

At 1800rpm Prime Power 600KWe/750KVA, Standby Power 675KWe/844KVA

## Features

Engine	Perkins
Type	4006-23TAG2A
Origin	UK
No. of Cylinders	6
Configuration	In-line
SAE/Flexible coupling	0/18"
Cycle	4-stroke
Bore, mm	160
Stroke, mm	190
Displacement, l	22.92
Compression ratio	13:1
Aspiration	Turbocharged
Injection	Electronic
Starting	24V Electric
Alternator, amps	70/24V

Alternator	Stamford
Type	HCI634G
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)	646 (866)	684 (917)
Standby Power, KWm (hp)	711 (953)	759 (1017)

Fuel system	1500pm	1800pm
Specific fuel consumption at:		
Prime Power, Litre/h		
50%	75	85
75%	113	123
100%	152	168

GENERATING SET POWERED BY PERKINS

# SP800-GENSET

### Circuit Breaker

3Pole series MCCB, amps  
CT's  
Steel sheet enclosure with bolted cover

### Documentation

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

### Dimensions and Weight

Length: 4.45m  
Width: 1.65m  
Height: 2.13m  
Weight: 5305Kg

### Spare Parts Kit (Optional)

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

### (Genuine Perkins)

2  
1  
1  
1  
1  
2  
1  
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 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.

