

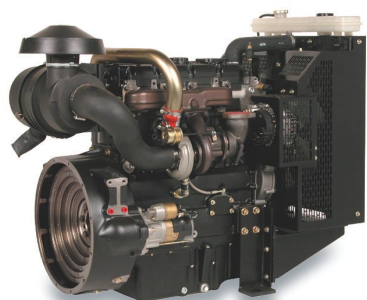
## Features

Engine	Perkins
Type	1104A-44TG2
Origin	UK
No. of Cylinders	4
Configuration	In-line
Cycle	4-stroke
Bore, mm	105
Stroke, mm	127
Displacement, l	4.4
Compression ratio	17.25:1
Aspiration	Turbocharged
Injection	Mechanical
Starting	12V Electric
Alternator, amps	24/12V

Alternator	Stamford
Type	UCI224G
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)	71.9 (96.4)	82.0 (109.9)
Standby Power, KWm (hp)	79.1 (106.1)	90.2 (121.0)

Fuel system	1500pm
Specific fuel consumption at:	
Prime Power, Litre/h	
50%	9.7
75%	14.0
100%	18.7



## GENERATING SET POWERED BY PERKINS

# SP80-GENSET

### Circuit Breaker

3Pole series MCCB adjustable, amps	120
CT's	120/5
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 .....	1241 mm
Width .....	629 mm
Height .....	951 mm
Weight.....	463 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.