



# Perkins P-220

**200 KVA** 3 Phase

50 Hz

60 Hz

**245 KVA** 3 PHASE

GENERATING SET MODEL (Perl	kins P-220)	
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	200 KVA	220KVA
	160 KW	176 KW
380-415 V, 3 ph, 50 Hz, 1800 rpm	245 KVA	269 KVA
	196 KW	215 KW

# **ENGINE / TECHNICAL DATA**

ENGINE	/ TECHNICAL	DATA

**Total Coolant Capacity litres** 

Exhaust Temperature: °C

Ratings at 0.8 Power Factor

ENGINE / TECHNICAL DATA		radings at 515 r off r asia.	
Engine Make	Perl	kins	
Engine Model	1106A-7	OTAG4	
Governing Type	Electr	ronic	
Number of Cylinders	6		
Cylinder Arrangement	Vertical	in line	
Bore and Stroke mm	105 x	135	
Displacement / Cubic Capacity litres	7.0	)1	
Induction System	Turbocharged, air to air charge cooled		
Cycle	4 stroke		
Combustion System	Direct Injection		
Compression Ratio	16:1		
Rotation	Anti-clockwise, viewed on flywheel		
Cooling System	Water - cooled		
Frequency and Engine Speed	50Hz & 1500rpm	60Hz & 1800rpm	
Gross Engine Power kW (hp)	178.9 (240)	196.3 (263)	
Fuel Consumption @ 50% load L/hr	20.5	25.5	
<b>@ 75% load</b> L/hr	31.0	36.8	
@ 100% load L/hr	40.2	41.3	
Total Lubrication System Capacity litres	16.5	16.5	

ALTERNAT	OR DATA		
Make	UPS / Leroy Somer		
Model	UPS274H /LSA (TAL) 46.2 M5		
No. of bearings 1		1	
Insulation class		Н	
Wires		6/12	
Ingress Prot	ection	IP23	
Excitation S	ystem	SHUNT	
Winding Pito	h	2/3	
Overspeed		2250 mn <sup>-1</sup>	
Voltage Regi	ulation (steady)	± 1%	
CONTROL	PANEL		
Make		Deep Sea	
Model		4000 SERIES	
The <b>DSE 4000</b> Series is an Auto Start Control Module			

The DSE 4000 Series is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of engine all the times. This module can either programmed using the front panel or by using the  $\ensuremath{\mathsf{DSE}}$ configuration suite

# **Metering and Alarm indications:**

- Generator frequency
- · Underspeed, Overspeed
- Generator volts (L-L, L-N)
- · Generator current
- · Engine oil pressure
- Engine coolant temperature
- · Hours run counter
- Battery voltsFail to start/stop
- Emergency stop
- · Failed to reach loading voltage/frequency
- · Charge fail
- · Low DC voltage
- · CAN diagnostics and CAN fail/error





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#### THE HEART OF EVERY GREAT MACHINE

# 1. ENGINE

Perkins four stroke heavy duty high performance industrial type diesel engine.

# 2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
- Two Cartridge type fuel filters. Full flow lube oil filter.

All filters have replaceable elements.

### 3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

# 4. EXHAUST SYSTEM

Exhaust gas flow 31.3 (m^3/min Maximum allowable back pressure 18.0 (kPa)

#### 5. CIRCUT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

# 6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

# 7. ALTERNATOR

#### 7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture or condensation.

#### 7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at  $\pm 1\%$ . Nominal adjustment by means of a trim pot incorporated on

#### **8. MOUNTING ARRANGEMENT**

#### 8.1 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

#### 8.2 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

#### 8.3 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection

#### 9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

# 10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

# 11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator,

# 12. QUALITY STANDARDS

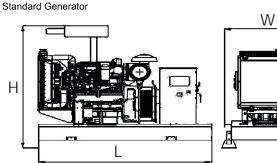
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

#### 13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours, Warranty of the equipment is in line with manufacturers warranty terms & conditions. (check warranty statement for more details, as it may vary for different countries

In line with continuous product development, we reserve the right to change specifications without notice.

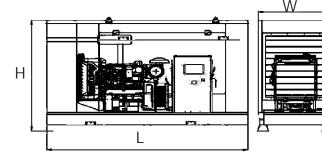
# **DIMENSIONS AND WEIGHT**



Generator with Soundproof Canopy

r VV	

29 m Length, L Heigth, H 1.5 m Width, W 1 m Weight, Total 2200 ka



Length, L 3.47 m 1.6 m Heigth, H Width, W 1.3 m Weight, Total 2400 kg