

60 KVA
3 PHASE

50 Hz

60 Hz

68.1KVA
3 PHASE



THE HEART OF EVERY GREAT MACHINE

GENERATING SET MODEL (Perkins P-66)			
Output Ratings	Prime	Standby	
380-415 V, 3 ph, 50 Hz, 1500 rpm	60 KVA	66 KVA	
	48 KW	52.8 KW	
380-415 V, 3 ph, 60 Hz, 1800 rpm	68.1 KVA	75.1 KVA	
	54.5 KW	60.1 KW	

ENGINE / TECHNICAL DATA			
		Ratings at 0.8 Power F	
Engine Make	Per	kins	
Engine Model	1103A-	1103A-33TG2	
Governing Type	Mechanical		
Number of Cylinders	3		
Cylinder Arrangement	Vertical in line		
Bore and Stroke mm	105 x 127		
Displacement / Cubic Capacity litres	3.3		
Induction System	Turbocharged		
Cycle	4 stroke		
Combustion System	Direct Injection		
Compression Ratio	17.25:1		
Rotation	Anti-clockwise, viewed from flywheel		
Cooling System	Water - cooled		
Frequency and Engine Speed	50Hz & 1500rpm / 60Hz & 1800rpm		
Fuel Consumption @ 50% load L/hr	7.2	=	
@ 75% load L∕hr	10.4	-	
@ 100% load L/hr	13.9	15.4	
Total Lubrication System Capacity litres	7.9	7.9	
Total Coolant Capacity (inc. radiator) litres	10.2	10.2	
Exhaust Temperature: °C	557	571	

ALTERNATOR DATA			
Make	UPS / LEROY SOMER		
Model	UPS224E /LSA(TAL)042H		
No. of bearings		1	
Insulation class		Н	
Wires		6/12	
Ingress Protection		IP23	
Excitation Sys	stem	SHUNT	
Winding Pitch)	2/3	
AVR Model			
Overspeed		2250 mn ⁻¹	
Voltage Regul	lation (steady)	± 1%	
CONTROL PANEL			
Make	·	Deep Sea	
Model		4000 SERIES	

The $DSE4000\ Series$ is an Auto Start ControlModule for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

Metering and Alarm indications:

- Generator frequency
- Underspeed, OverspeedGenerator volts (L-L, L-N)
- Generator current
- Generator currentEngine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts
- Fail 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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1. ENGINE

Peckins 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 10 m^3/min

Maximum allowable back pressure 10.0 (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 the AVR

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

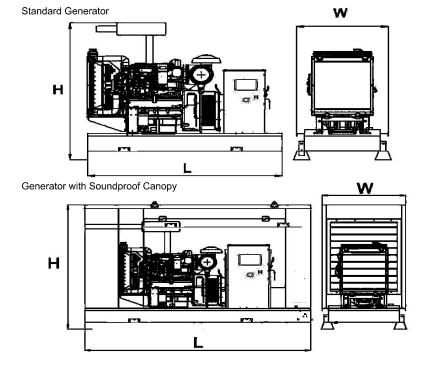
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

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 debals, 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



 Length, L
 1.702 m

 Heigth, H
 1.197 m

 Width, W
 0.801 m

 Weight, Total
 945 kg

 Length, L
 2.10 m

 Heigth, H
 1.180 m

 Width, W
 0.950 m

 Weight, Total
 1050 kg