

Mikas Middle East **FZE**

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Machinery for Industrial Kinetics, Access, and Services

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20 KVA
3 PHASE 50 Hz

GENERATING SET MODEL (UPS P 20)		
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	20 KVA	22 KVA
	16 KW	17.6 KW
380-415 V, 3 ph, 60 Hz, 1800 rpm	24.2 KVA	26.6 KVA
	19.3 KW	46.9 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor **Engine Make** Perkins **Engine Model** 404A-22G1 **Governing Type** Mechanical **Number of Cylinders** 4 **Cylinder Arrangement** Vertical in line Bore and Stroke mm 84 x 100 **Displacement / Cubic Capacity litres** 2.216 **Induction System Naturally Aspirated** Cycle 4 stroke **Combustion System** Indirect Injection **Compression Ratio** 23.3:1 Rotation Anti-clockwise, viewed on flywheel **Cooling System** Water - cooled **Frequency and Engine Speed** 50Hz & 1500rpm 60Hz & 1800rpm Fuel Consumption @ 50% load L/hr 2.9 3.5 @ 75% load L/hr 4.0 4.8 @ 100% load L/hr 5.3 6.2 **Total Lubrication System Capacity litres** 10.6 Total Coolant Capacity (inc. radiator) litres 7.0 7.0 Exhaust Temperature: °C 505

24.2 KVA 3 PHASE

ALTERNAT	FOR DATA	
Make	UPS	/ Leroy Somer
Model	UPS184E	/LSA (TAL)040 F
No. of bearings		1
Insulation class		Н
Total Harmonic Content		at no load <3% - on load <2%
Wires		6 / 12
Ingress Protection		IP23
Excitation System		Shunt
Winding Pitch		2/3
Overspeed		2250 mn ⁻¹

CONTROL PANEL	
Make	Deep Sea
Model	4000 SERIES

± 1%

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 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:

Voltage Regulation (steady)

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

Image for illustrative purposes only









24.2 KVA

1. ENGINE

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

50 Hz

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 3.64 m^3/min 10.0 (kPa) Maximum allowable back pressure

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.

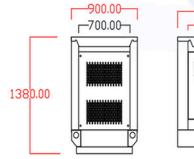
13. WARRANTY

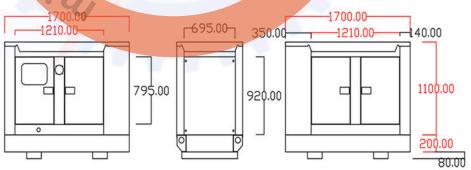
All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours. Warranty of the equipment is in line with manufacturers warranty terms & conditions. ent for more details, as it may vary for different countries)

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

STANDARD GENERATOR DIMENSION AND WEIGHT

Silent Type (with Soundproof Canopy)





Open Type (without Soundproof Canopy)

