

Mikas Middle East FZE

Office No: 139/A, Building -Q1-04 **Sharjah Airport International Freezone** PO Box: 61397, Sharjah **United Arab Emirates.**

Machinery for Industrial Kinetics, Access, and Services

mikas.ae



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	F	Perkins	
Engine Model	404	4A-22G1	
Governing Type	Me	chanical	
Number of Cylinders	123	4	
Cylinder Arrangement	Vertical in line		
Bore and Stroke mm	84	4 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	
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10			
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	10.6	
Total Coolant Capacity (inc. radiator) litres	7.0	7.0	
Exhaust Temperature: °C	445	505	

24.2 KVA **3 PHASE**

2250 mn⁻¹

Make	LIDO /		
	UPS / Leroy Somer		
Model	UPS184E /L	.SA (TAL)040 F	
No. of bearing	ngs	1	
Insulation c	lass	Н	
Total Harmo	nic Content	at no load <3% - on load <2%	
Wires		6 / 12	
Ingress Pro	tection	IP23	
Excitation S	ystem	Shunt	
Winding Pit	ch	2/3	

o i o i o po o u	2200 11111
Voltage Regulation (steady)	± 1%
CONTROL PANEL	

Make Deep Sea Model 4000 SERIES

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:

· Generator frequency

Oversneed

- · 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
- Charge fail
- Low DC voltage
- · CAN diagnostics and CAN fail/error

Image for illustrative purposes only









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

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.

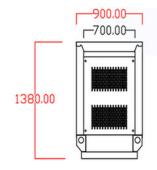
13. WARRANTY

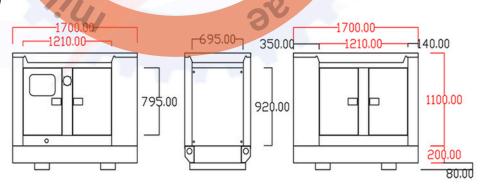
All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours. Warranty of the equipment is in line with manufacturers warranty terms & conditions. ent for more details, as it may vary for different countries)

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

STANDARD GENERATOR DIMENSION AND WEIGHT

Silent Type (with Soundproof Canopy)





Open Type (without Soundproof Canopy)

