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



9KVA **3 PHASE** 

50 Hz

GENERATING SET MODEL ( UPS P 10)			
Output Ratings	Prime	Standby	
380-415 V, 3 ph, 50 Hz, 1500 rpm	9.0 KVA	9.9 KVA	
	7.2 KW	7.9 KW	
380-415 V, 3 ph, 60 Hz, 1800 rpm	11.2.KVA	12.4 KVA	
	9.0KW	9.9 KW	

ENGINE / TECHNICAL DATA		
	as.ae	Ratings at 0.8 Power F
Engine Make	Perk	rins
Engine Model	403A-	11G1
Governing Type	Mecha	anical
Number of Cylinders	3	
Cylinder Arrangement	Vertical	in line
Bore and Stroke mm	84 x 100	
Displacement / Cubic Capacity litres	1.1	
Induction System	Naturally Aspirated	
Cycle	4 stroke	
Combustion System	Indirect Injection	
Compression Ratio	22.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	60Hz & 1800rpm
	4	
Fuel Consumption @ 50% load L/hr	1.5	1.7
@ <b>75% load</b> L/hr	2.0	2.3
@ 100% load L/hr	2.6	3.0
Total Lubrication System Capacity litres	4.9	4.9
Total Coolant Capacity (inc. radiator) litres	5.2	5.2
Exhaust Temperature: °C	368	437

Image for illustrative purposes only



# 60 Hz

ALTERNATOR DATA				
Make	UPS / Leroy Somer			
Model	UPS164B /	LSA (TAL)040B		
No. of bearings		1		
Insulation class		Н		
Total Harmo	onic Content	at no load <3% - on load <2%		
Wires		6/12		
Ingress Pro	tection	IP23		
Excitation S	ystem	Shunt		
Winding Pit	ch	2/3		
Overspeed		2250 mn <sup>-1</sup>		
Voltage Red	nulation (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
- · 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







### 1. ENGINE

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

50 Hz

#### 2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
- 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 1.66 m^3/min 10.2 (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 ±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

#### 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.

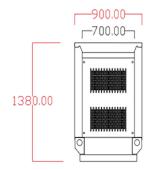
#### 13. WARRANTY

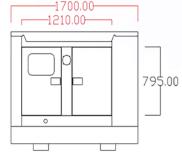
All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours. Warranty of the equipment is in line with manufacturers warranty terms & conditions. nent for more details, as it may vary for different countries)

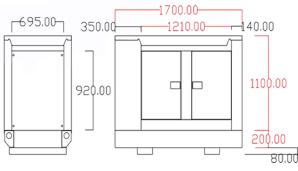
In line with continuous product development, we reserve the right to change specifications without notice.

### STANDARD GENERATOR DIMENSION AND WEIGHT

### Silent Type (with Soundproof Canopy)







## Open Type (without Soundproof Canopy)

