

## **Mikas Middle East FZE**

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Machinery for Industrial Kinetics, Access, and Services

mikas.ae

## **400 KVA** 50 Hz 3 PHASE

# **Perkins**

GENERATING SET MODEL ( UPS P400 )			
Output Ratings	Prime	Standby	
380-415 V, 3 ph, 50 Hz, 1500 rpm	400 KVA	450 KVA	
	320 KW	360 KW	
380-415 V, 3 ph, 60 Hz, 1800 rpm	400 KVA	438KVA	
	320 KW	350 KW	

#### **ENGINE / TECHNICAL DATA**

Ratings at 0.8 Power Factor

Engine Make		Perkins	
Engine Model	2206A-E	2206A-E13TAG3	
Governing Type	Elect	Electronic	
Number of Cylinders	110	6	
Cylinder Arrangement	Vertical	Vertical in line	
Bore and Stroke mm	137 )	137 x 171	
Displacement / Cubic Capacity litres	12	12.5.	
Induction System	Turbocharged and air	Turbocharged and air to air charge cooled	
Cycle	4 str	4 stroke	
Combustion System	Direct I	njection	
Compression Ratio	16	16:1	
Rotation	Anti-clockwise, vi	Anti-clockwise, viewed on flywheel	
Cooling System	Water -	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	60Hz & 1800rpn	
Gross Engine Power kW (hp)	451 (605)	495 (664)	
Fuel Consumption @ 50% load L/hr	42	43	
@ <b>75% load</b> L/hr	62	62	
@ 100% load L/hr	81	81	
Total Lubrication System Capacity litres	40	40	
Total Coolant Capacity litres	51.4	51.4	
Exhaust Temperature: °C	630	660	

60 Hz

**400KVA** 3 PHASE

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Make	UPS / Leroy Somer		
Model	UPS314F/L	SA (TAL) 046H	
No. of bearing	igs	1	
Insulation cl	ass	Н	
Wires		6/12	
Ingress Prote	ection	IP23	
<b>Excitation Sy</b>	/stem	Shunt	
Winding Pito	:h	2/3	

2250 mn<sup>-1</sup> Overspeed Voltage Regulation (steady) ± 1%

#### **CONTROL PANEL**

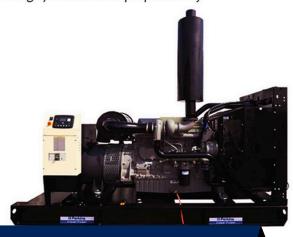
Make Deep Sea 4000 SERIES Model

The DSE4000 Series is an Auto Start Control for single genset applications. It includes a 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 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

Image for illustrative purposes only







## STANDARD SPECIFICATIONS

**400 KVA** 

50 Hz

#### 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 75.8 m^3/min Maximum allowable back pressure 10.7 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 ±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.

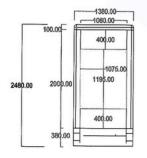
#### 13. WARRANTY

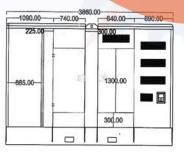
All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours, Warranty of the equipment is in line with manufacturers warranty terms & conditions. nent for more details, as it may vary for different countries)

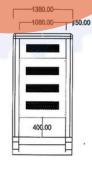
In line with continuous product development, we reserve the right to change specifications without notice.

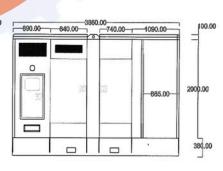
### STANDARD GENERATOR DIMENSION AND WEIGHT

## Silent Type (with Soundproof Canopy)









## Open Type (without Soundproof Canopy)

