# ELETROMA



### CONTROL PANEL Make Datakom Model D100 MK2

The D100 MK2 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 Datakom Rainbow plus PC software.

Metering and Alarm indications: • Generator frequency

- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) Optional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal Optional Low DC voltage
- CAN diagnostics and CAN fail/error

GENERATING SET MODEL (EY165)		
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	150 KVA	165 KVA
	120 KW	132 KW

Ratings at 0.8 Power Factor

ENGINE / TECHNICAL DATA		ALTERNATOR DATA		
Engine Make	YTO	Make	YANAN	
Engine Model	LR6A3L-D	Model	SLG274F	
Governing Type	Electronic	No. of bearings	1	
Number of Cylinders	6 Insulation class		Н	
Cylinder Arrangement	Vertical in line	Total Harmonic Content	<3%	
Bore and Stroke mm	105X125	Wires	6	
Displacement / Cubic Capacity litres	6.49	Ingress Protection	IP22	
Induction System	Turbo Charger	Excitation System	SHUNT	
Cycle	4 stroke	Winding Pitch	2/3 (wdg 3)	
Combustion System	Direct Injection	AVR Model	AS440	
DC Voltage	24	Overspeed 2250 mm		
Rotation	Anti-clockwise, viewed on flywheel	Voltage Regulation (steady)	±1%	
Cooling System	Water - cooled	Short Circuit Capacity	-	
Engine Speed	1500rpm	AREP Excitation System Available as Optional.		
Engine Power kWm	132			
Fuel Consumption @ 50% load L/hr	15.47			
@ 75% load L/hr	23.8			
@ 100% load L/hr	34.748			
Fuel Tank Capacity: litres	302	DIMENSIONS WITH CANO	DIMENSIONS WITH CANOPY	
		Length mm	3480	
		Width mm	1110	
		Height mm	1650	





# **RATINGS DEFINITION**

### **Prime Power**

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

# STANDARD REFERENCE CONDITIONS

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 55°C), humidity (up to 99%) and higher altitudes.

De-ration may apply, please consult your dealer for specific site ratings.

Some of the specifications are not standard on all Genset models.

# STANDARD SPECIFICATIONS

### ENGINE

YTO four stroke heavy duty high performance industrial type diesel engine

# ENGINE FILTRATION SYSTEM

Air filter

- Fuel filter
- 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

Heavy duty Industrial Exhaust Silencer

5. CIRCUIT BREAKER TYPE Legrand 3 pole MCB. (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.

# **AVAILABLE OPTIONS & ACCESSORIES**

• Additional protection alarms and shutdowns

• 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

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR) The fully sealed Automatic Voltage Regulator maintains the

Voltage Regulation at  $\pm 0.5\%$ . Nominal adjustment by means of a

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds,

The complete Generating Set is mounted as a whole on a heavy duty

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the

8.3 ANTI-VIBRATION MOUNTING PADS

We offer a range of optional features and accessories to tailor our generating sets to meet your power needs.

# OPTIONS

· Water fuel seperator

· Water jacket heater

· Battery charger

7. ALTERNATOR

condensation

7.1 INSULATION SYSTEM The insulation system is Class H

trim pot incorporated on the AVR.

8. MOUNTING ARRANGEMENT

7.3 MOTOR STARTING

when AREP option is fitted.

8.1 BASE FRAME

8.2 COUPLING

fabricated steel Baseframe.

- ACCESSORIES • A variety of generating set control and synchronizing panels • Genuine spare parts
  - Load banks

  - Auxiliary fuel tanks Manual & automatic transfer
  - switches

# 8.4 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

# 9. FACTORY TESTS

 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. DOCUMENTATIONS**

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. Warranty of the equipment is in line with manufacturers warranty terms & conditions. (check warranty statement 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.



rotating assembly.

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