



## CONTROL PANEL

Make	Datakom
Model	D100 MK2

The D100 MK2 is an Auto Start Control Module for

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 (EY110)

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	100 KVA	110 KVA
	80 KW	88 KW

Ratings at 0.8 Power Factor

## ENGINE / TECHNICAL DATA

Engine Make	YTO
Engine Model	LR4M3L-D
Governing Type	Electronic
Number of Cylinders	4
Cylinder Arrangement	Vertical in line
Bore and Stroke mm	110X125
Displacement / Cubic Capacity litres	4.75
Induction System	Turbo Charger
Cycle	4 stroke
Combustion System	Direct Injection
DC Voltage	24
Rotation	Anti-clockwise, viewed on flywheel
Cooling System	Water - cooled

**Engine Speed** **1500rpm**

Engine Power kWm	95
Fuel Consumption @ 50% load L/hr	13.63
@ 75% load L/hr	20.06
@ 100% load L/hr	26.67
Fuel Tank Capacity: litres	283

## ALTERNATOR DATA

Make	YANAN
Model	SLG274C
No. of bearings	1
Insulation class	H
Total Harmonic Content	<3%
Wires	12
Ingress Protection	IP22
Excitation System	SHUNT
Winding Pitch	2/3 (wdg 3)
AVR Model	AS440
Overspeed	2250 mn <sup>-1</sup>
Voltage Regulation (steady)	±1%
Short Circuit Capacity	-

*AREP Excitation System Available as Optional.*

## 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.

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to

humidity (up to 99%) and higher altitudes.

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

Genset models.

### OPTIONS

- Additional protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger

### ACCESSORIES

- Genuine spare parts
- Load banks
- Auxiliary fuel tanks
- Manual & automatic transfer switches

## STANDARD SPECIFICATIONS

### 1. ENGINE

engine.

### 2. ENGINE FILTRATION SYSTEM

- Air filter
  - Fuel filter
  - Full flow lube oil filter
- All filters have replaceable elements.

### 3. COOLING RADIATOR

for de-rating 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 Engine and drain plug.

### 7. ALTERNATOR

#### 7.1 INSULATION SYSTEM

- The insulation system is Class H

impregnated with a special polyester resin. • Heavy coat of condensation.

#### 7.2 AUTOMATIC VOLTAGE REGULATOR

trim pot incorporated on the AVR.

#### 7.3 MOTOR STARTING

when AREP option is fitted.

### 8. MOUNTING ARRANGEMENT

#### 8.1 BASE FRAME

fabricated steel Baseframe.

#### 8.2 COUPLING

rotor.

#### 8.3 ANTI-VIBRATION MOUNTING PADS

rotating assembly.

### 8.4 SAFETY GUARDS

Safety Guard protected for personnel protection.

### 9. FACTORY TESTS

dispatch.

### 10. EQUIPMENT FINISHING

durability.

### 11. DOCUMENTATIONS

Operation & Maintenance manual, Circuit wiring diagrams and with the Generator.

### 12. QUALITY STANDARDS

BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

### 13. WARRANTY

manufacturers warranty terms & conditions.

to change specifications without notice.