


**CONTROL PANEL**

Make DATAKOM  
Model D100MK2

The D100MK2 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 (EY66)**

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	60 KVA	66 KVA
	48 KW	52.8KW

Ratings at 0.8 Power Factor

**ENGINE / TECHNICAL DATA**

Engine Make	YANGDONG	Make	YANAN
Engine Model	Y41ZLD	Model	SLG224E
Governing Type	Electronic	No. of bearings	1
Number of Cylinders	4	Insulation class	H
Cylinder Arrangement	Vertical in line	Total Harmonic Content	<3%
Bore and Stroke mm	105X118	Wires	12
Displacement / Cubic Capacity litres	4.3	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 mn <sup>-1</sup>
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	52.7
Fuel Consumption @ 50% load L/hr	8.66
@ 75% load L/hr	11.69
@ 100% load L/hr	14.72

Fuel Tank Capacity: litres	100
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**DIMENSIONS WITH CANOPY**

Length mm	2285
Width mm	1120
Height mm	1380



## 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

### 1. ENGINE

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

### 2. 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 the Engine and drain plug.

## AVAILABLE OPTIONS & ACCESSORIES

### OPTIONS

- A variety of generating set control and synchronizing panels
- 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

### 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  $\pm 0.5\%$ . Nominal adjustment by means of a trim pot incorporated on the AVR.

#### 7.3 MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds, when AREP option is fitted.

#### 8. MOUNTING ARRANGEMENT

##### 8.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe.

#### 8.2 COUPLING

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

#### 8.3 ANTI-VIBRATION MOUNTING PADS

and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

### 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 its systems are checked before dispatch.

### 10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with durability.

### 11. DOCUMENTATIONS

Operation & Maintenance manual, Circuit wiring diagrams and 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.

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



D9th Enterprises

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