

Diesel Power Generator

100KVA/80KW

Features

- ◆ YTO engine LR4M3L-D
- ◆ Mecca alternator MC80
- ◆ Deepsea Controller DSE6120
- ◆ MCCB Breaker
- ◆ Base fuel tank
- ◆ Emergency stop button, alarm, panel light
- ◆ 12/24V maintenance free battery, battery wires
- ◆ Float battery charger
- ◆ Battery isolator switch
- ◆ Powder coated canopy
- ◆ Radiator with engine driven fan mounted
- ◆ Anti-vibration mountings
- ◆ Silencers with flexible connects and elbow
- ◆ Test report, drawing, operation and maintenance manual



Genset Main Data

Genset Model	MC110YT	
Prime Power	80KW / 100KVA	
Standby Power	88KW / 110KVA	
Frequency/Speed	50Hz/1500rpm	
Standard Voltage	400/230V	
Power Factor	0.8	
Phases	Three phases, four wires	
Fuel Cons. (L/H)	110% prime power	22
	100% prime power	20
	75% prime power	15
	50% prime power	10
Dimensions(L×W×H)mm	Silent	
	2390x1058x1681	
Weight (kg)	1410	
Base fuel tank (Hour)	8h	

Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation. In accordance with ISO 3046-1.

Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

data for reference

Engine Data

Engine Model	LR4M3L-D
Brand	YTO
Engine Speed	1500rpm
Engine Power(Kw)	98KW
Bore and Stroke	110*125
Cy/No. and Arrangement	Water-cooled, 4-stroke,4-Cyl in-line
Displacement(L)	4.58
Compression Ratio	17:01
Lub oil Capacity (L)	14
Aspiration	Turbocharged with aftercooler
Governor Type	Electrical
Starter (V)	24V

Alternator Data

Alternator Model	MC80
Brand	Mecca Power
Output Power	100kva
Voltage Control	AVR
Number of Phase	3
Power Factor (Cos Phi)	0.8
Insulation Class	H
Protection	23
Altitude	≤ 1000 m
Number of Pole	4
Bearing	Single
Connection	Series Star
Coupling	Direct

Control System



Deepsea Panel Model

DSE6120

KEY FEATURES

- 4-line back-lit LCD text display
- Multiple display languages
- Five-key menu navigation
- LCD alarm indication
- Customisable power-up text and screen images.
- DSENet® expansion compatibility
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB communications
- Front panel configuration with PIN protection
- Power save mode
- 3-phase generator sensing and protection
- 3-phase mains (utility) sensing and protection (DSE6120 MKIII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains (utility) current and power monitoring (kW, kvar, kVA, pf) (DSE6120 MKIII only)

The **DSE6120 MKIII** will monitor the mains (utility) supply. The modules include USB connection and dedicated DSENet® terminals for system expansion.

This module is compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer an extensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.

The extensive list of features includes enhanced event and performance monitoring, remote communications & PLC functionality.

The modules can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.

Optional

Genset

- * Trailer
- * Dual frequency (50/60hz both)
- * Customised canopy design
- * Special required sound level
- * 50°C ambient temperature
- * Synchronization system

Exhaust System

- * Customised exhaust connection way

Fuel System

- * Dual wall base fuel tank
- * Enlarge base fuel tank
- * External daily fuel tank
- * External Fuel Pump
- * Low fuel level alarm
- * Automatic fuel feeding system
- * Fuel three-valves

Controller

- * Remote control system
- * Synchronization controller
- * ATS

Alternator

- * PMG
- * Drop kits
- * Anti-condensation heater
- * Winding temperature measuring instrument
- * Single phase
- * Double bearing
- * Anti-damp and anti-corrosion treatment

Engine

- * Water jacket preheater
- * Lub oil heater
- * Electronic governor



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For continuous product development, specifications allow some changes

For more information, please contact your local mecca generator partner:

