



GENERATOR SET powered by **CUMMINS**

M690C



Genset Model	Prime		Standby	
	kW	kVA	kW	kVA
M690C	496	620	545	690

Voltage	380/220	400/230	415/240
Amps	1035	983	893

Ratings at 0.8 power factor

- 1) Ambient reference conditions: 1,000 mbar, 27°C, 30% relative humidity;
- 2) ESP: Standby Power Standby duty, operation under variable load, without over load;
- 3) PRP: Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;

DIMENSION

Model		M690C
DIM (mm)	L	3600
	W	1460
	H	2050
Weights (kg)		4556

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine).

Engine Brand	Cummins
Engine Model	KTAA19-G6A
Alternator Brand	Marathon
Alternator Model	MP-500-4
Control System	DSE6020
Circuit Breaker Type	3 Pole MCCB
Frequency & Phase	50Hz & 3PH
Engine Speed: RPM	1500
Oil Capacity (L)	50
Fuel Consumption (L/hr)	157
Lubricant	15W40-CF4 Upgrade

**Note: All data sheets are for reference only and subject to change without prior notice.*



ENGINE SPECIFICATIONS

Brand	Cummins
Model	KTAA19-G6A
Rated RPM	1500
Cylinder Arrangement	6 - Inline
Compression Ratio	13 :1
Bore and Stroke	159 x 159 mm
Fuel Consumption (L/h)	157
Displacement (L)	18.9
Aspiration	Turbo after cooled
Governor Type	Electronic Speed Control System
Fuel System	Electric unit pump
Engine Cooling System	Water cooled
Start Mode	DC 24V Electric Start

ALTERNATOR SPECIFICATIONS

Brand	Marathon
Model	MP-500-4
Number of Bearing	1
Insulation System	H/H
Power Factor	0.8
Protection	IP23
Frequency Fluctuation	$\leq \pm 0.5\%$
Voltage Regulation	$\leq \pm 1.0\%$
Telephone Interference	THF < 2%
Connecting Type	3 phase and 4 wires, "Y" type connecting
Alternator Efficiency	94.1 %
Rated Voltage	400/230
Voltage Control	AVR AS440
Excitation System	Self Excited

GENERATOR SET OPTIONS

Engine

- . Heavy Duty air filter
- . Water jacket heater 220/240

Cooling

- . Antifreeze 50/50 (Ethylene glycol)

Enclosure

- . Sound attenuated canopy

Alternator

- . Alternator heater

Control Panel

- . 3 pole Main Circuit Breaker

Warranty

- . 5 years for Standby application
- . 2 years for Prime application

Silencer

- . 9 dB attenuation industrial silencer
- . 25 dB residential – delivered loose



TECHNICAL PARAMETERS OF CONTROL PANEL:

Brand	UK Deepsea	Model	6020
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❖ Main Feature

Electronic J1939 (CAN) and nonelectronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant. The DSE6020 will also monitor the mains (utility) supply

❖ Key Function

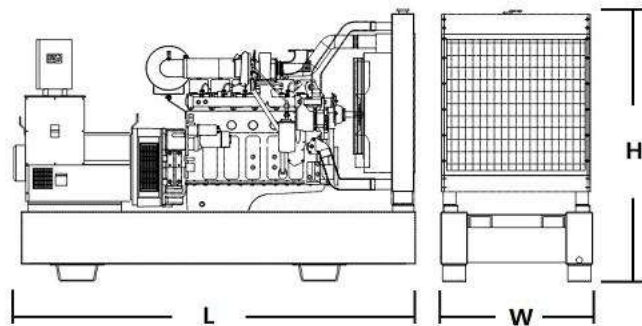
- ▲ 4-Line back-lit LCD text display
- ▲ Charge alternator failure alarm
- ▲ Five key menu navigation
- ▲ Manual speed ctrl (oncompatible CAN engines)
- ▲ Front panel editing with PIN protection
- ▲ CAN and Magnetic Pick-up/Alt sensing
- ▲ Power save mode Customisable status screens
- ▲ Overload protection
- ▲ Support for up to three remote
- ▲ Reverse power (kW & kV Ar) protection
- ▲ 9 configurable inputs
- ▲ LED and LCD alarm indication
- ▲ Display units
- ▲ Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- ▲ Flexible sender inputs
- ▲ Load switching (load shedding and dummy load outputs)
- ▲ Configurable timers and alarms
- ▲ Automatic load transfer
- ▲ 3 configurable maintenance alarms



- ▲ Unbalanced load protection
- ▲ Multiple date and time scheduler
- ▲ Independent Earth Fault trip
- ▲ Configurable event log (250)
- ▲ USB connectivity
- ▲ Integral PLC editor ☆ For more information, please visit the
- ▲ Easy access diagnostic page official website
- ▲ Tier 4 CAN engine support
- ▲ Compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines

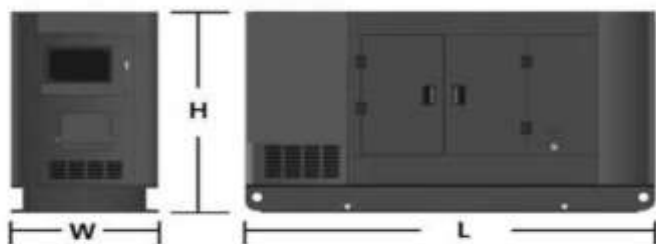


DIMENSION



OPEN TYPE (mm)

L	W	H
3600	1460	2050



SILENT TYPE (mm)

L	W	H
5456	1706	3013

DATA:

- Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V
- All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53inHg), air temperature 25°C (77°F), relative humidity 30%.
- Diesel generator comply with standards: ISO8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, IEC34-1

WARRANTY POLICY

- Guarantee for one year or 2000 hours (accord to whichever reach first) from ex-factory date. Wearing parts(filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

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