

## GENERATOR MODEL: CU100

**230/400V, 50HZ @ 1500RPM**

<b>Prime Power</b>	100 kVA	80 kW
<b>Standby Power</b>	110 kVA	88 kW

## FEATURES:

- **Warranty: 1 year or 1000 hours.**
- **Cummins as the world's leading power engines manufacturer since 1919.**
- **24/7 after sales support.**
- **Easy and economical availability of Spares.**
- **Advance digital control system, Long service life, Easy to Operate, Low Fuel consumption, Anti vibrating Isolators.**
- **Automatic start (optional), Eco-friendly.**
- **Low oil shutdown safety.**
- **Automatic overload protection safety.**



## Dimensions

L x W x H = 7.25 x 2.95 x 4.5 (without Canopy)



## Engine

Cummins (China), Model 6BT5.9-G2, in accordance to ISO3046, ISO 8528, DIN 6271



## Alternator

Stamford-UK, Leroy Somer-France, Meccalte-EU Complying to the following Standards: CEE/CE12/3/EN60034-1 / IEC34-1/VDE



## Control Panel

Deep Sea Electronics DSE-4000/6000 series, Made in UK, Comply to standards: BS EN 61000, BS EN 60950, BS EN



## Fuel Tank

The overall fuel tank capacity: 235 LTR.

## ENGINE TECHNICAL DATA

SPECIFICATION	DETAILS
<b>Engine Make</b>	Cummins
<b>Engine Model</b>	6BT5.9-G2
<b>Number Of Cylinders</b>	6
<b>Cylinder Arrangement</b>	Vertical In Line
<b>Bore and Stroke</b>	102 mm x 120 mm
<b>Governor Type</b>	Mechanical
<b>Displacement</b>	5.9 L
<b>Compression Ratio</b>	17.5:1
<b>Aspiration</b>	Turbocharged
<b>Cycle</b>	4 Stroke
<b>Combustion System</b>	Direct Injection
<b>Rotation</b>	Anti-clockwise, viewed on flywheel
<b>Cooling System</b>	Water - Cooled
<b>Frequency and Engine Speed</b>	50Hz and 1500 rpm

## ENGINE TECHNICAL DATA

SPECIFICATION	DETAILS
<b>Gross Engine Power (Prime)</b>	96 kW / 129 h.p
<b>Gross Engine Power (Standby)</b>	106 kW / 142 h.p
<b>Fuel Consumption (100% Load)</b>	22 L/hr
<b>Fuel Consumption (75% Load)</b>	17 L/hr
<b>Fuel Consumption (50% Load)</b>	11 L/hr
<b>Fuel Tank Capacity</b>	235 Ltr
<b>Lubrication System Capacity</b>	16.4 Ltr
<b>Total Coolant Capacity</b>	27.0 Ltr
<b>Radiator Cooling Air Flow</b>	2.6 m <sup>3</sup> /sec
<b>Combustion Air Flow</b>	6.5 m <sup>3</sup> /min
<b>Exhaust Gas Flow (Prime)</b>	19.5 m <sup>3</sup> /min
<b>Exhaust Gas Flow (Standby)</b>	21.2 m <sup>3</sup> /min
<b>Exhaust Temperature (Prime)</b>	540 °C
<b>Exhaust Temperature (Standby)</b>	533 °C

## ALTERNATOR TECHNICAL DATA

SPECIFICATION	DETAILS
<b>Insulation System</b>	Class H
<b>Winding Pitch</b>	2/3 to Minimize Harmonics effects
<b>Number Of Poles</b>	4
<b>Number Of Bearings</b>	Single Bearing
<b>RPM</b>	1500 RPM
<b>Power Factor</b>	0.8/1
<b>Regulation</b>	± 1%
<b>Frequency</b>	50 Hz
<b>Voltage Range</b>	380-415 / 220-240
<b>IP Rating (Protection)</b>	Ip23

## **CONTROL MODULE DEEP SEA ELECTRONICS (DSE-4000/6000/7000 Series)**



### **INDICATORS**

- Operating Hours
- 3 Phase Generator Voltage Sensing & Monitoring
- Current Protection & Monitoring
- Power Measurement (kW, kVA, kVAR, kWh, kVAh, kVAh, pf)
- Frequency Monitoring (Hz)
- Oil Pressure/Coolant Temperature
- Battery Voltage Monitoring (DC)
- Alarm Acknowledge



### **CONTROLS**

- Engine Cool Down Timer
- Emergency Stop Push button/ Alarm Acknowledge
- Warm-up Timer
- Load Switching Timer
- Engine Cycle Crank



### **WARNING & SHUTDOWN ALARM**

- Generator Over/Under Voltage & Frequency
- Crank Disconnect (Failure to Start)
- Under/Over Speed
- Over Current
- Low Oil Pressure
- High Water Temperature
- Low Fuel Level
- Low Water Level



### **FEATURES**

- User Friendly
- Compatible With CAN Engines
- License Free Software
- Largest Backlit Icon Display In Its Class
- Fully Configured Via The Fascia Or Pc Using Usb
- Efficient Power Save Mode