SMART POWER GENERATION

Cummins

GENERATOR MODEL: CU50

230/400V, 50HZ @ 1500RPM		
Prime Power	50 kVA	40 kW
Standby Power	55 kVA	44 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.**

Engine

Cummins (China), Model 4BT3.9-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

Dimensions

L x W x H = 5.75 x 2.6 x 3.93 (without Canopy)

Fuel Tank

The overall fuel tank capacity: 125 LTR.

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ENGINE TECHNICAL DATA

SPECIFICATION	DETAILS
Engine Make	Cummins
Engine Model	4BT3.9-G2
Number Of Cylinders	4
Cylinder Arrangement	Vertical In Line
Bore and Stroke	102 mm x 120 mm
Governor Type	Mechanical
Displacement	3.9 L
Compression Ratio	16.5:1
Aspiration	Naturally Aspired
Cycle	4 Stroke
Combustion System	Direct Injection
Rotation	Anti-clockwise, viewed on flywheel
Cooling System	Water - Cooled
Frequency and Engine Speed	50Hz and 1500 rpm

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ENGINE TECHNICAL DATA

SPECIFICATION	DETAILS
Gross Engine Power (Prime)	58 kW / 78 h.p
Gross Engine Power (Standby)	64 kW / 86 h.p
Fuel Consumption (100% Load)	13 L/hr
Fuel Consumption (75% Load)	10 L/hr
Fuel Consumption (50% Load)	06 L/hr
Fuel Tank Capacity	125 Ltr
Lubrication System Capacity	11 Ltr
Total Coolant Capacity	21.0 Ltr
Radiator Cooling Air Flow	2.4 m^3/sec
Combustion Air Flow	2.7 m^3/min
Exhaust Gas Flow (Prime)	6.1 m^3/min
Exhaust Gas Flow (Standby)	6.5 m^3/min
Exhaust Temperature (Prime)	463 °C
Exhaust Temperature (Standby)	487 °C

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ALTERNATOR TECHNICAL DATA

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

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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, kVArh, 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