

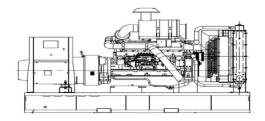
# DIESEL GENERATOR EDG-800C-6

# **POWER RATING**

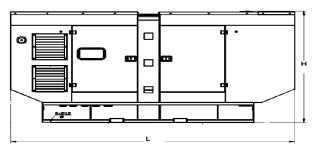
	With 60 Hz of frequency	
Output voltage (Vac), 3Phase	380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM.	
Prime power	727 kW, 909 kVA	
Standby power	800 kW, 1000 kVA	

Power ratings are made in accordance with ISO8528

# Weight and Dimensions



**Skid Type** Overall size (L\*W\*H), mm : 4121\*1705\*2253 Weight : 5950 kg



Sound Proof Type Overall size (L\*W\*H), mm : 6500\*2200\*2350 Weight : 9300 kg

# **Generator Set Performance and Feature**

- RELIABLE HIGH QUALITY SYSTEM- To improve the performance of Products, high quality auxiliaries equipment applied and optimized protection device built in the digital controller against malfunctioning and abnormal conditions.
- SIMPLE AND EASY OPERATION- With centralized controls simplifying generator operation and supervision is made very simple.
- LOW COST MAINTENANCE & OPERATION- Use the specialized diesel engine for generator set keeps operation costs very low.

- FREQUENCY REGULATION ACCURACY- Under varying loads from no load to 100% load at the rated power factor(0.8), frequency regulation is 5%(mechanical type governor), 1%(electric type governor).
- VOLTAGE REGULATION ACCURACY- Under varying loads from no load to 100% load at the rated power factor (0.8), voltage regulation is less than ±2.5%.
- VOLTAGE ADJUSTABLE RANGE- Under rated speed and no load condition, voltage adjustable range is less than ±5% of rated voltage.

- Applied the 2/3 pitch winding to reduce the 3rd harmonics.
- Designed by using the latest technologies and the best materials available to guarantee high efficiency value.
- Impregnated with high-grade resin and protection against hostile environment is provided as standard.
- Supplied with over exciting current and under frequency protection built in the AVR.
- Suitable for parallel operation with other generator or mains power. (Parallel kit is available on request.)

## ENGINE

Manufacturer ······ Cummins Model·····QSK23-G3

Prime power (Gross) At 60 Hz ...... 809 kWm (1085bhp) / 1800rpm

# Standby power (Gross)

<u>Standby power (Gross)</u>
At 60 Hz 895 kWm (1200 bhp) / 1800 rpm
Nos. of cylinder 6 cylinders
Block & cycle In-line 4 cycle
Displacement 23.1 liters
Compression ratio 16.0:1
Cylinder block Cast iron
Bore x stroke 170 x 170 mm
Aspiration Turbocharged , Intercooled
Rotation Anti-clockwise (view from
flywheel)
NOTE-The Engine performance corresponds to ISO3046,
BS5514 and DIN 6271.

#### LUBRICATION SYSTEM

Oil filter ...... Spin-on full flow filter

Lube method Full forced pressure feed
Oil pump type Gear driven by crankshaft
Max oil temp 120 Celsius degree
Oil TypeSAE15W40CE

#### FUEL SYSTEM

Fuel filter Spin-on fuel filter with water Separator
Injection Direct injection
Governor ······ Electronic
Fuel typeLight diesel fuel, DIN51601,
BS2869, ASTM D975
Fuel tankmounted in bed
Fuel consumption at prime operation (liter/hr)
At 60 Hz ······ min 56 , max 189 (lph) NOTE- based on min at 25% loaded, max at 100%prime loaded

#### ELECTRICAL SYSTEM

Battery ...... Nos. 2 x 150 AH Alternator ...... 24 Vdc, 35 A Starting voltage ...... 24 Vdc, Negative ground

## GENERATOR

NOTE- Generator is in compliance with IEC 60034-1, CEI 2-3, BS4999-5000, VDE 0530, NF 51-100, 111, OVE M-10, NEMA MG 1.22

# EXHAUST SYSTEM

Silencer/muffler ..... Nos.1 x Dry type

### **COOLING SYSTEM** (Standard Radiator)

Type ...... Water cooled Fan power ...... 24.2 kWm Cooling system air Flow 16.6 m3/s

#### AIR SYSTEM

Air cleaner type ..... Dry, paper element

### SERVICE REFILL CAPACITY

Fuel tank	Skid :	liters	
	Sound Pro	of :	liters
Engine oil	103 liters		
Coolant	120 liters		

# CONTROL PANEL mounted



Dimension (W x H x D): 450 x 600 x 200 (mm)

SWITCH& PUSH BUTTON Manual/Remote/Auto button	0
Stop button	0
	0
GCB Close/Trip button Alarm button	
Direction/Enter/ESC button	0
	0
Emergency stop push button Main Power Switch	0
	-
Voltage Adjuster	0
DISPLAY	
Digital Volt./Current/Power/PF/Hz	0
Running Hours/Kilowatt hour	0
RPM/DC Voltage	0
Oil press./Coolant temp	0
Cooldown time/Mains power live/Failure sensing time	0
BREAKER	
Main molded case circuit breaker (MCCB 4P)	O (3P as option)
Circuit protector for DC source	0
Breaker for main power/coolant heater	0
INDICATOR & PROTECTION SYSTEM	
Main power lamp	0
Manual/Remote/Auto, LED	0
Running, LED	0
GCB close/trip, LED	0
Emergency stop, LCD	0
Over voltage/Under voltage/Over Current, LCD	0
High coolant temperature, LCD	0
Low lub. oil pressure, LCD	0
Fail to start, LCD	0
Over speed, LCD	0
REMOTE SYSTEM	-
PC Monitoring program	
Dry Contact (Mains Power, Running, Fault)	0
CONTROL SYSTEM	0
SPEED CONTROL UNIT	0
OTHERS	0
	•
Dry Contact (Extension Module)	<u> </u>
Battery Charger	0

O: Equipped as standard

▲: To be equipped as option

X: not applicable

## STANDARD EQUIPMENT

## Engine

Fuel oil filter Lub. oil filter and drain valve Air cleaner Lubricate oil Fan Belt

**Control panel** Digital control panel (EDGC10)

Exhaust Industrial Silencer (Sound attenuation up to 20db) Bellows

Voltage Connection 440V/254V

Electrical System Battery and Battery cable Charging Alternator

Manual Operation & Maintenance manual Generator part book

## **OPTIONAL EQUIPMENT**

**Engine** Battery auto charger (For Standby Power usage)

**Control panel** Self-standing panel

Enclosed Unit Sound Proof Canopy

**Cold climate heater** Coolant heater, 120V/240V

**Spare parts** PM (preventive maintenance) parts; filters & oils RSP (recommended spare parts)

Fuel Options Fuel Water Separator Free Standing Fuel Tank