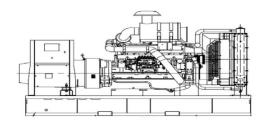
EDG-460C-6

POWER RATING

	With 60 Hz of frequency	
Output voltage (Vac), 3Phase	380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM.	
Prime power	420 kW, 525 kVA	
Standby power	462 kW, 577 kVA	

Power ratings are made in accordance with ISO8528

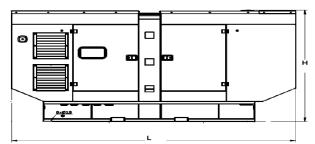
Weight and Dimensions



Skid Type

Overall size (L*W*H), mm:

3377*1550*2103 Weight : 4035 kg



Sound Proof Type

Overall size (L*W*H), mm:

4810*1610*2620 Weight : 5035 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------ QSX15-G9

Prime power (Gross)

At 60 Hz507 kWm (680bhp) / 1800rpm

Standby power (Gross)

At 60 Hz 563 kWm (755 bhp) / 1800 rpm

Nos. of cylinder 6 cylinders Block & cycle In-line 4 cycle Displacement 15 liters Compression ratio 17.0:1 Cylinder block Cast iron Bore x stroke 137 x 169 mm

AspirationTurbocharged, Air cooled 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 Type SAE15W40CE

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 tank mounted in bed Fuel consumption at prime operation (liter/hr)

At 60 Hz max 97.6 (lph)

NOTE- based on 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

Type Revolution Field

Phase & wire 3P4W Power factor 0.8 Nos. of Pole · · · · 4

Speed 1800/60 (rpm/Hz)

Insulation Class..... H

Excitation Self-Excited, Brushless

Method of cooling Self ventilation

Winding Pitch 2/3

One-step load 100% (NFPA110) Coupling Flexible Disc

Bearing Single, Ball Bearing

Connection Star (Wve) Insulation grade IP21 Over speed 2070 rpm

Overload110% for 1 hr of rated power

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 ····· 16 kWm

Cooling system air Flow 11.8 m3/s

AIR SYSTEM

Air cleaner type Dry, paper element

SERVICE REFILL CAPACITY

Fuel tank Skid: 850 liters

Sound Proof: 850 liters

Engine oil 91 liters Coolant 66 liters

CONTROL PANEL mounted





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

SPECIFICATION	
SWITCH& PUSH BUTTON	
Manual/Remote/Auto button	0
Stop button	0
GCB Close/Trip button	0
Alarm button	0
Direction/Enter/ESC button	0
Emergency stop push button	0
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	A
Dry Contact (Mains Power, Running, Fault)	0
CONTROL SYSTEM	
SPEED CONTROL UNIT	0
OTHERS	
Dry Contact (Extension Module)	A
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