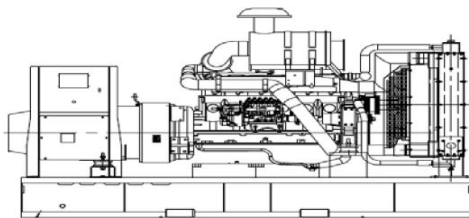


POWER RATING

	With 60 Hz of frequency
Output voltage (Vac), 3Phase	380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM.
Prime power	1295 kW, 1619 kVA
Standby power	1500 kW, 1875 kVA

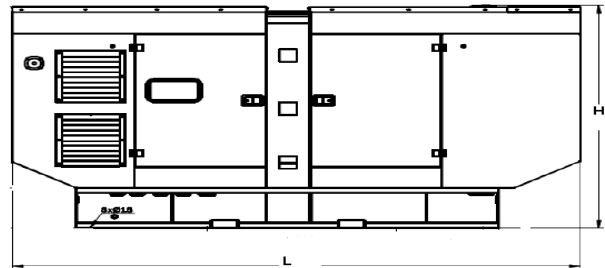
Power ratings are made in accordance with ISO8528

Weight and Dimensions



Skid Type

Overall size (L*W*H), mm :
5450*1950*2450
Weight : 10400 kg



Sound Proof Type

Overall size (L*W*H), mm :
9000*2270*2550
Weight : 16400 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 $\pm 2.5\%$.
- **VOLTAGE ADJUSTABLE RANGE-** Under rated speed and no load condition, voltage adjustable range is less than $\pm 5\%$ 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..... KTA50-G9

Prime power (Gross)

At 60 Hz 1384 kWm (1855bhp) / 1800rpm

Standby power (Gross)

At 60 Hz 1656 kWm (2220 bhp) / 1800 rpm

Nos. of cylinder 16 cylinders
Block & cycle Vee-Type 4 cycle
Displacement..... 50 liters
Compression ratio..... 13.9:1
Cylinder block Cast iron
Bore x stroke 159 x 159 mm
Aspiration Turbocharged , 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 Dual Spin-on fuel filter with water Separator
Injection..... Direct injection
Governor Electronic
Fuel type Light diesel fuel, DIN51601, BS2869, ASTM D975
Fuel tank mounted in bed
Fuel consumption at prime operation (liter/hr)

At 60 Hz min 111 , max 330 (lph)

NOTE- based on min at 25% loaded, max at 100%prime loaded

ELECTRICAL SYSTEM

Battery Nos. 4 x 200 AH
Alternator..... 24 Vdc, 55 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 (Wye)
Insulation grade IP21
Over speed 2070 rpm
Overload 110% 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.2 x Dry type

COOLING SYSTEM (Standard Radiator)

Type Water cooled
Fan power 33 kWm
Cooling system air Flow 28.2 m3/s

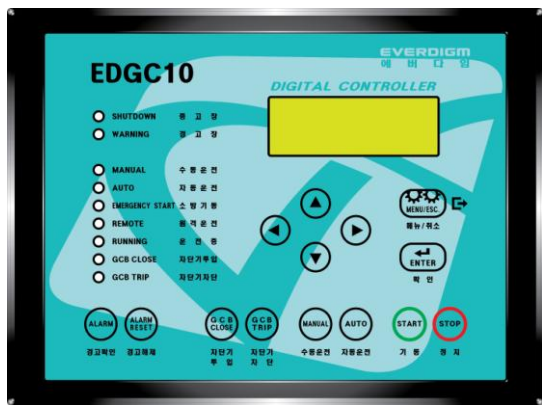
AIR SYSTEM

Air cleaner type Dry, paper element

SERVICE REFILL CAPACITY

Fuel tank Skid : liters
Sound Proof : liters
Engine oil 204 liters
Coolant 643 liters

CONTROL PANEL mounted



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

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

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