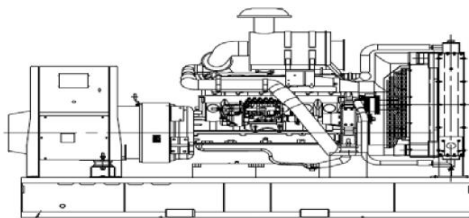


## POWER RATING

	With 60 Hz of frequency
Output voltage (Vac), 3Phase	380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM.
Prime power	910 kW, 1138 kVA
Standby power	1000 kW, 1250 kVA

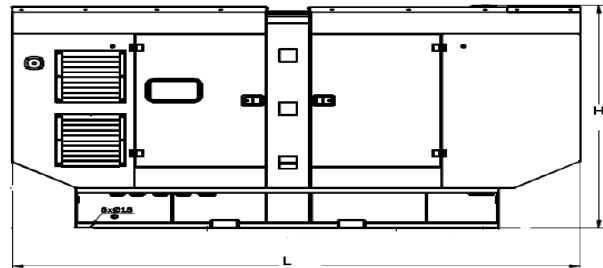
Power ratings are made in accordance with ISO8528

## Weight and Dimensions



### Skid Type

Overall size (L\*W\*H), mm :  
4400\*1776\*2341  
Weight : 7500 kg



### Sound Proof Type

Overall size (L\*W\*H), mm :  
7500\*2300\*2500  
Weight : 11150 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.
- **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).
- Applied the 2/3 pitch winding to reduce the 3rd harmonics.
- **SIMPLE AND EASY OPERATION-** With centralized controls simplifying generator operation and supervision is made very simple.
- **VOLTAGE REGULATION ACCURACY-** Under varying loads from no load to 100% load at the rated power factor (0.8), voltage regulation is less than  $\pm 2.5\%$ .
- Designed by using the latest technologies and the best materials available to guarantee high efficiency value.
- **LOW COST MAINTENANCE & OPERATION-** Use the specialized diesel engine for generator set keeps operation costs very low.
- **VOLTAGE ADJUSTABLE RANGE-** Under rated speed and no load condition, voltage adjustable range is less than  $\pm 5\%$  of rated voltage.
- 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..... QST30-G4

Prime power (Gross)  
 At 60 Hz ..... 1007 kWm (1350bhp) / 1800rpm

Standby power (Gross)  
 At 60 Hz ..... 1112 kWm (1490 bhp) / 1800 rpm

Nos. of cylinder ..... 12 cylinders  
 Block & cycle ..... Vee-Type 4 cycle  
 Displacement..... 30.5 liters  
 Compression ratio..... 14.0:1  
 Cylinder block ..... Cast iron  
 Bore x stroke ..... 140 x 165 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 ..... 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 66 , max 240 (lph)

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

**ELECTRICAL SYSTEM**

Battery ..... Nos. 2 x 200 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 (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 ..... 42 kWm  
 Cooling system air Flow ..... 17.07 m3/s

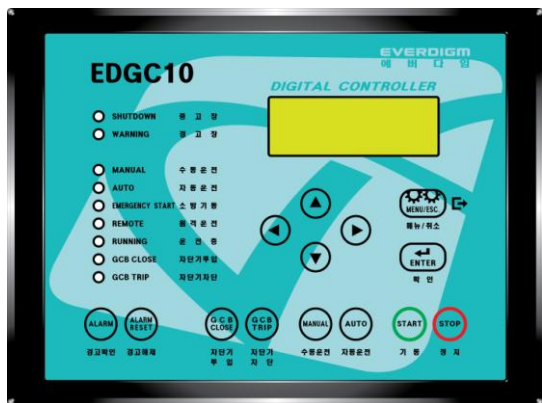
**AIR SYSTEM**

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

**SERVICE REFILL CAPACITY**

Fuel tank ..... Skid : liters  
 Sound Proof : liters  
 Engine oil ..... 154 liters  
 Coolant ..... 342 liters

**CONTROL PANEL mounted**



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

SPECIFICATION		
<b>SWITCH&amp; PUSH BUTTON</b>		
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
<b>DISPLAY</b>		
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
<b>BREAKER</b>		
Main molded case circuit breaker (MCCB 4P)		O (3P as option)
Circuit protector for DC source		O
Breaker for main power/coolant heater		O
<b>INDICATOR &amp; PROTECTION SYSTEM</b>		
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
<b>REMOTE SYSTEM</b>		
PC Monitoring program		▲
Dry Contact (Mains Power, Running, Fault)		O
<b>CONTROL SYSTEM</b>		
SPEED CONTROL UNIT		O
<b>OTHERS</b>		
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