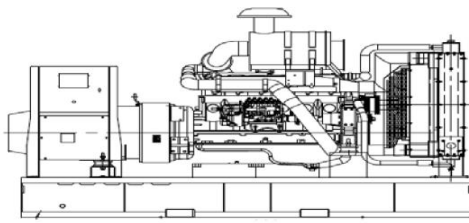


## POWER RATING

	With 60 Hz of frequency
Output voltage (Vac), 3Phase	380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM.
Prime power	260 kW, 325 kVA
Standby power	285 kW, 356 kVA

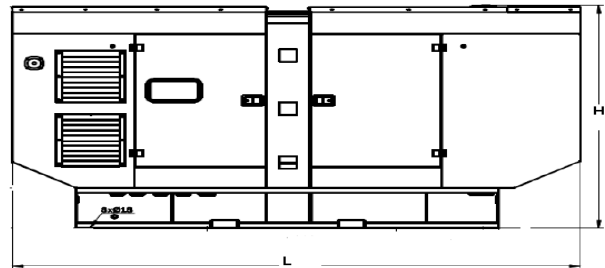
Power ratings are made in accordance with ISO8528

## Weight and Dimensions



### Skid Type

Overall size (L\*W\*H), mm :  
3058\*1550\*2071  
Weight : 3130 kg



### Sound Proof Type

Overall size (L\*W\*H), mm :  
4460\*1610\*2480  
Weight : 4200 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..... NT 855-G6

### Prime power (Gross)

At 60 Hz ..... 295 kWm (396bhp) / 1800rpm

### Standby power (Gross)

At 60 Hz ..... 325 kWm (436 bhp) / 1800 rpm

Nos. of cylinder ..... 6 cylinders  
Block & cycle ..... In-line 4 cycle  
Displacement..... 14 liters  
Compression ratio..... 16.8:1  
Cylinder block ..... Cast iron  
Bore x stroke ..... 140 x 152 mm  
Aspiration ..... Turbocharged  
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 ..... max 74 (lph)  
*NOTE- based on max at 100%prime loaded*

## ELECTRICAL SYSTEM

Battery ..... Nos. 2 x 150 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.1 x Dry type

## COOLING SYSTEM (Standard Radiator)

Type ..... Water cooled  
Fan power ..... 11.6kWm  
Cooling system air Flow ..... 7.6 m3/s

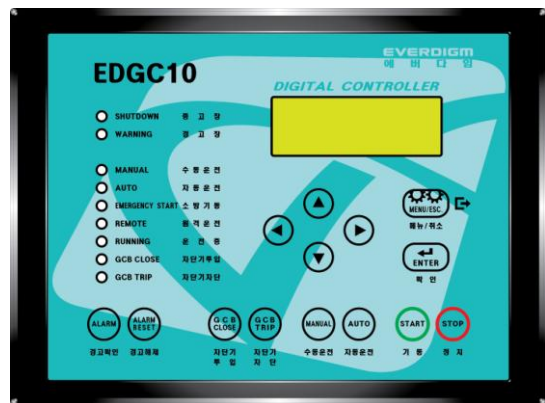
## AIR SYSTEM

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

## SERVICE REFILL CAPACITY

Fuel tank ..... Skid : 700 liters  
Sound Proof : 700 liters  
Engine oil ..... 38.6 liters  
Coolant ..... 68 liters

**CONTROL PANEL mounted**



Dimension (W x H x D): 430 x 330 x 260 (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

**NOISE LEVEL**

TYPE (NO LOAD)	1m	7m
SOUND PROOF	85 dB	76 dB