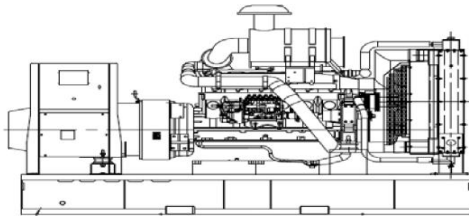


## POWER RATING

|                              |   |
|------------------------------|---|
|                              | With 60 Hz of frequency   |
| Output voltage (Vac), 3Phase | 380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM. |
| Prime power                  | 256 kW, 320 kVA   |
| Standby power                | 280 kW, 350 kVA   |

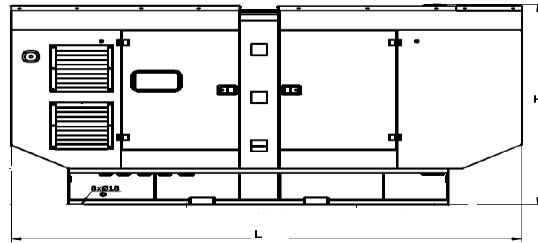
*Power ratings are made in accordance with ISO8528*

## Weight and Dimensions



### Skid Type

Overall size (L\*W\*H), mm :  
Approx. 2929\*1400\*1978  
Weight : Approx. 3130 kg



### Sound Proof Type

Overall size (L\*W\*H), mm :  
Approx. 4517\*1463\*2163  
Weight : Approx. 3690 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).
- **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

|                                  |                                    |
|----------------------------------|------------------------------------|
| Engine Brand                     | CUMMINS                            |
| Engine Model                     | NTA855G1                           |
| Engine Power Output at rated rpm | 317 kWm at 425 HP                  |
| Aspiration and Cooling           | Turbocharged and Charge Air Cooled |
| Total Displacement               | 14 Liter                           |
| No. of Cylinders and Build       | 6-Inline                           |
| Engine Speed                     | 1800 rpm                           |
| Bore and Stroke                  | 140x152 mm x mm                    |
| Compression Ratio                | 14.5:1                             |
| Governor                         | Electronic                         |
| Fuel Consumption at full load    | 74 L/hr                            |
| Fuel Tank Capacity               | Open/Sound Proof : 526 Liter       |
| Oil Capacity                     | 38.6 Liter                         |
| Coolant Capacity                 | 75.8 Liter                         |
| Radiator Cooling Air             | 878 m <sup>3</sup> /min            |
| Air Intake                       | 27.78 m <sup>3</sup> /min          |
| Exhaust Gas Flow                 | 75.18 m <sup>3</sup> /min          |

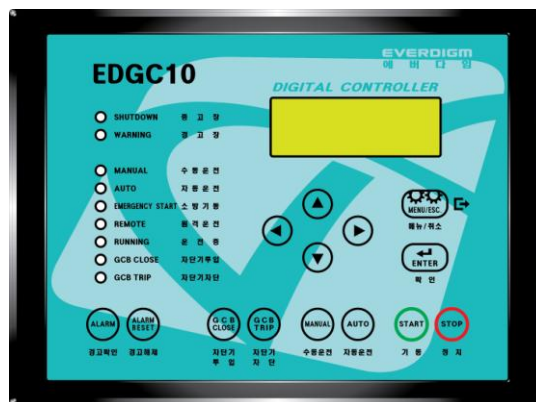
NOTE-The Engine performance corresponds to ISO3046, BS5514 and DIN 6271.

## ALTERNATOR

|                   |                              |
|-------------------|------------------------------|
| 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         |
| 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

# CONTROLLER



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

Mounted control panel  
Digital controller (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 parts book

## OPTIONAL EQUIPMENT

### Engine

Battery auto charger (For Standby Power usage)

### Control panel

Digital controller (Comap Synch Controller)

### Enclosed Unit

Sound Proof Type  
Containerized Type

### 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

### Manual

Engine Parts Book