EVERDIGM

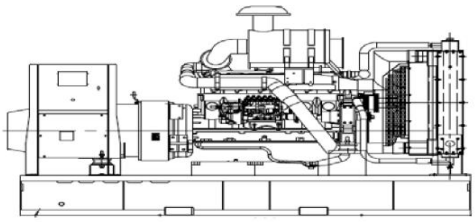
**DIESEL GENERATOR**
# EDG-350C-6

## POWER RATING

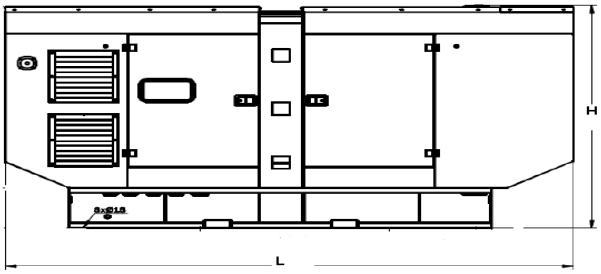
| | With 60 Hz of frequency |
|---|---|
| Output voltage (Vac), 3Phase | 380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM. |
| Prime power | 320 kW, 400 kVA |
| Standby power | 350 kW, 438 kVA |

*Power ratings are made in accordance with ISO8528*

## Weight and Dimensions



**Skid Type**
Overall size (L*W*H), mm :
2963*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 ±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.)

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## ENGINE

Manufacturer ····· Cummins
Model ····· NTA 855-G3

Prime power (Gross)
At 60 Hz ····· 358 kWm (480bhp) / 1800rpm

Standby power (Gross)
At 60 Hz ····· 399 kWm (535 bhp) / 1800 rpm
Nos. of cylinder ····· 6 cylinders
Block & cycle ····· In-line 4 cycle
Displacement ····· 14 liters
Compression ratio ····· 14.0:1
Cylinder block ····· Cast iron
Bore x stroke ····· 140 x 152 mm
Aspiration ····· Turbocharged and Aftercooled
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 87 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 (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
Thermostat Range ·· 82 ~ 93 ℃

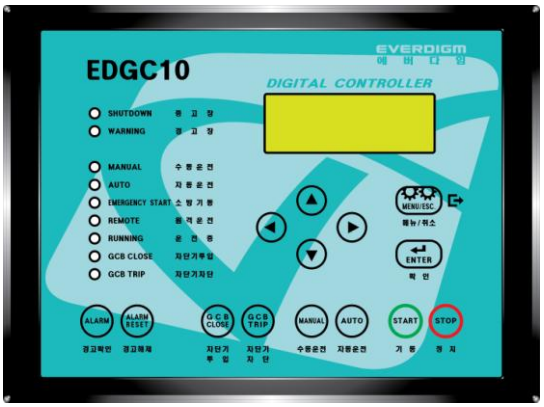
## AIR SYSTEM

Air cleaner type ····· Dry, paper element

## SERVICE REFILL CAPACITY

Fuel tank ····· Skid : 700 liters
Sound Proof : 700 liters
Engine oil ····· 38.6 liters
Coolant ····· 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 | 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

## NOISE LEVEL

| TYPE (NO LOAD) | 1m | 7m |
|---|---|---|
| SOUND PROOF | 85 dB | 75.9 dB |

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