DIESEL GENERATOR

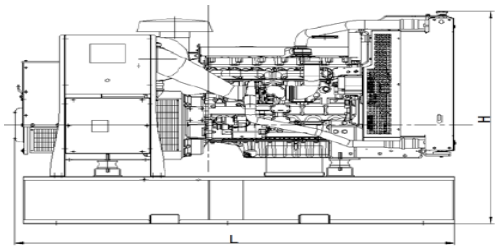
EDG-220P-6

POWER RATING

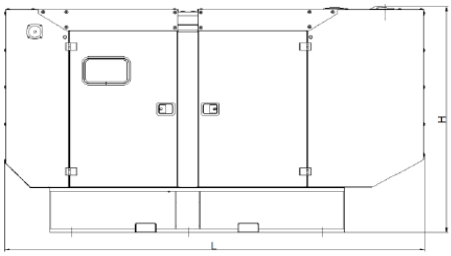
	With 60 Hz of frequency
Output voltage (Vac), 3Phase	380 ~ 480 Volts(208-240volt option), 380VOLT consulted by EVERDIGM.
Prime power	200 kW, 250 kVA
Standby power	220 kW, 275 kVA

Power ratings are made in accordance with ISO8528

Weight and Dimensions



Skid Type
Overall size (L*W*H), mm :
2600*1250*1827
Weight : 2230 kg



Sound Proof Type
Overall size (L*W*H), mm :
3648*1313*2035
Weight : 2790 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 ····· Perkins
Model ····· 1506A-E88TAG2
Prime power (Net)
At 60 Hz ····· 218 kWm (296.5 ps) / 1800 rpm
Standby power (Net)
At 60 Hz ····· 239 kWm (325 ps) / 1800 rpm
Nos. of cylinder ····· 6 cylinders
Block & cycle ····· In-line 4 cycle
Displacement ····· 8.8 liters
Compression ratio ····· 16.9:1
Fire order ····· 1,5,3,6,2,4
Cylinder type ····· Replaceable dry liner
Bore x stroke ····· 112 x 149 mm
Aspiration ····· Turbocharged aftercooled
Rotation ····· Anti-clockwise (view from flywheel)

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

LUBRICATION SYSTEM

Oil filter ····· Cartridge type
Lube method ····· Full forced pressure feed
Oil consumption ····· 0.5 grams per ps and hour
Oil pump type ····· Gear driven by crankshaft
Max oil temp. ····· 125 Celsius degree
Shutdown setting ····· 0.5 to 0.7 kg/cm^2
Oil Type ····· SAE15W40CE

FUEL SYSTEM

Fuel filter ····· Cartridge type
Injection ····· Direct type
Governor ····· ECM
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 56 (lph)

NOTE- based on max at 100% prime loaded

ELECTRICAL SYSTEM

Battery ····· Nos. 1 x 150 AH
Alternator ····· 12 Vdc, 65 A
Starting motor ····· 12 Vdc, 4.2 kW

GENERATOR

Type ····· Revolution Field
Phase & wire ····· 3P4W
Power factor ····· 0.8

GENERATOR

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

Exhaust gas flow ····· 47.6 m^3/min at 60Hz
Exhaust gas temp ····· 576 degree Celsius at 60Hz
Silencer/muffler ····· Nos.1 x Dry type
Exhaust outlet ····· Nos.1 x 2.8 inches (72mm), Based on 10meter

COOLING SYSTEM (Standard Radiator)

Type ····· Water cooled
Pump capacity ····· l/min 142@60Hz
Thermostat operating temp (Celsius degree)
Opening ····· 82
Full open ····· 93
Shutdown set ····· 103±3

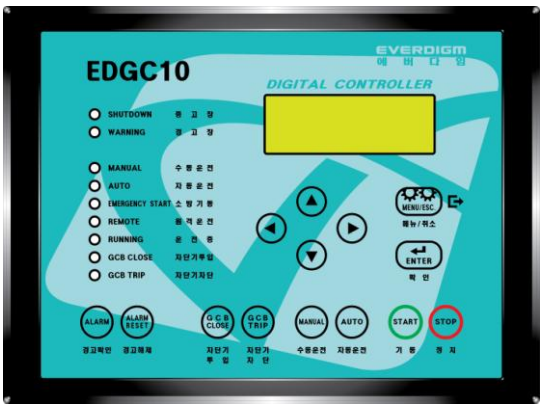
AIR SYSTEM

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

SERVICE REFILL CAPACITY

Fuel tank ····· Skid : 473 liters
Sound Proof :473 liters
Engine oil ····· 41 liters
Coolant ····· 24.2 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

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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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