

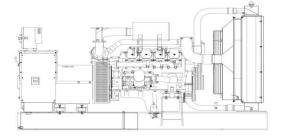
DIESEL GENERATOR

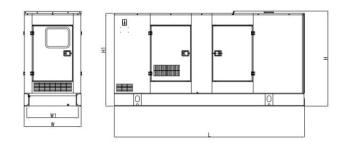
POWER RATING

	With 50 Hz of frequencyWith 60 Hz of frequency	
Output voltage (Vac), 3Phase	380 ~ 440 Volts (208-220volt option)	380 ~ 480 Volts(208-240volt option)
Prime power	600 kW, 750 kVA	680 kW, 850 kVA
Standby power	660 kW, 825 kVA	750 kW, 938 kVA

Power ratings are made in accordance with ISO8528

Weight and Dimensions





Sound Proof Type

Weight: 5,895 kg

Overall size (L*W*H), mm : 4,800*1,652*2,200

Skid Type Overall size (L*W*H), mm : 3,489*1,400*2,164 Weight : 3,890 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.)

ENGINE

Manufacturer ······ Doosan Infracore				
Model······DP222LC				
Prime power				
At 50 Hz 633 kWm (861 ps)/1500 rpm				
At 60 Hz715 kWm (972 ps)/1800 rpm				
Standby power				
At 50 Hz 699 kWm (950 ps)/1500 rpm				
At 60 Hz 790 kWm(1074 ps)/1800 rpm				
Nos. of cylinder 12 cylinders				
Block & cycle ······· V-type, 4 cycles				
Displacement 21.927 liters				
Compression ratio ····· 15:1				
Fire order 1,12,5,8,3,10,6,7,2,11,4,9				
Cylinder type Replaceable wet liner				
Bore x stroke 128 x 142 mm				
AspirationTurbo-charged & Inter-cooled				
RotationCounter clockwise viewed				
from flywheel				
NOTE-The Engine performance corresponds to ISO3046, BS5514 and DIN 6271.				

LUBRICATION SYSTEM

Oil filter Full flow 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 120 Celsius degree
Shutdown setting 0.5 to 0.7 kg/cm ²
Oil Type SAE 15W40CE

FUEL SYSTEM

Fuel filterFull flow, cartridge type with water drain value				
Injection pump Bosch in-line "P" type				
Governor Electric Type				
Fuel type Light diesel fuel, DIN51601,				
BS2869, ASTM D975				
Fuel tankmounted in bed				
Fuel consumption at prime operation (liter/hr)				
At 50 Hz min 42.1, max 161.0 (lph)				
At 60 Hz min 49.1, max 183.2 (lph)				
NOTE- based on min at 25% loaded, max at 100% loaded				

ELECTRICAL SYSTEM

GENERATOR

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

GENERATOR

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 ····· 120 m³/min at 60Hz Exhaust gas temp····· 472 degree Celsius at 60Hz <u>Max permissible restriction (mmH2O)</u> Intake system ···· initial 220, end 635 Exhaust system ··· 600 Silencer/muffler ····· Nos. 2 x Dry type Exhaust outlet ····· Nos. 2 x 6 inches (150A), Based on 10meter

COOLING SYSTEM (Standard Radiator)

Type Water cooled Pump capacity I/min 660@60Hz <u>Thermostat operating temp (Celsius degree)</u> Opening 71 Full open 85 Shutdown set 103±3 Radiator grill size..... 1,310 x 1,525 (L x H, mm)

AIR SYSTEM

Air cleaner type Dry, paper element <u>Radiator duct area</u> Air inlet duct 2.728 m² Air outlet duct 2.274 m²

SERVICE REFILL CAPACITY

Fuel tank ······ Skid : 275 liters Sound Proof 1000 liters Engine oil ······ 40 liters Coolant ····· 113 liters

CONTROL PANEL mounted



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

SWITCH& PUSH BUTTON	
Manual/Remote/Auto button	0
Stop button	0
GCB Close/Trip button	0
Alarm button	0
Direction/Enter/ESC button	0
Emergency stop push button	0
Main Power Switch	0
Voltage Adjuster	0
DISPLAY	
Digital Volt./Current/Power/PF/Hz	0
Running Hours/Kilowatt hour	0
RPM/DC Voltage	0
Oil press./Coolant temp	0
Cooldown time/Mains power live/Failure sensing time	0
BREAKER	
Main molded case circuit breaker (MCCB 4P)	O (3P as option)
Circuit protector for DC source	0
Breaker for main power/coolant heater	0
NDICATOR & PROTECTION SYSTEM	
Main power lamp	0
Manual/Remote/Auto, LED	0
Running, LED	0
GCB close/trip, LED	0
Emergency stop, LCD	0
Over voltage/Under voltage/Over Current, LCD	0
High coolant temperature, LCD	0
Low lub. oil pressure, LCD	0
Fail to start, LCD	0
Over speed, LCD	0
REMOTE SYSTEM	
PC Monitoring program	
Dry Contact (Mains Power, Running, Fault)	0
CONTROL SYSTEM	-
SPEED CONTROL UNIT	0
OTHERS	
Dry Contact (Extension Module)	
	—

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 Silencer (Sound attenuation up to 20db) Bellows

Voltage Connection

- 50Hz: 400V/230V
- 60Hz: 380V/220V

Electrical System Battery and Battery cable Charging Alternator

Manual Operation & Maintenance manual Generator part book Engine part book

OPTIONAL EQUIPMENT

Engine Battery auto charger (For Standby Power usage)

Control panel Analog control panel Self-standing panel Parallel control panel : Island or Grid Mode

Enclosed Unit Weather Proof Enclosure Sound Proof Enclosure Containerized Enclosure

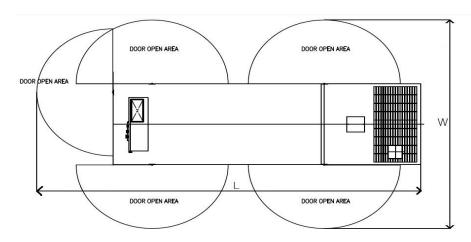
Cold climate heater Coolant heater, 120V/240V Fuel heater, 120V/240V Air heater, 120V/240V

Spare parts PM (preventive maintenance) parts; filters & oils RSP (recommended spare parts)

Fuel Options Fuel Water Separator Free Standing Fuel Tank

Tropical Cooling System

SOUND PROOF CANOPY (Option)



L: 6400mm, W: 3650mm

NOISE LEVEL				
ТҮРЕ	NO LOAD		FULL LOAD	
	1m	7m	1m	7m
SOUND PROOF	85 dB	74 dB	86 dB	75 dB

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