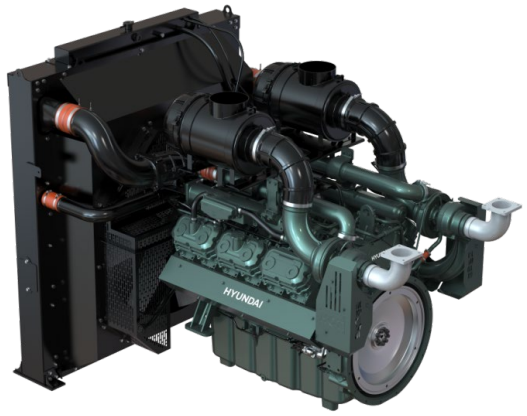
HYUNDAI
DP222CAS

12
50/60Hz MULTI FREQUENCY GENERATOR
OIL 500h
EPA/CARB Tier 2

GENERATOR

Description

- HD Hyundai Infracore, which has been engaged in engine production and development since 1958, introduces a new generator electronic engine DP222 C-Series.
- When compared to other engines of equivalent capacity, it displays a higher output, better fuel efficiency, higher safety, and easier maintenance and is expected to become the key product of HD Hyundai Infracore.



Features

[High Power & Economy]
- High performance & Low fuel/oil consumption
- 50/60 Hz switchable without Power De-rating
- G3 Class(ISO 8528-5)

[High Durability]
- High strength design for main structure parts
- Higher warranty period through sufficient verification
  - 1000hrs /5years (ESP)

[Convenience & Safety]
- Oil maintenance interval: 500hrs without replenishment
- Auto tensioning belt drive system
- Radiator to cover a wide range of usage condition
- Safety guard for hazard parts
- Meet REACH & RoHS regulations

Power

1,500 RPM (50Hz)									1,800 RPM (60Hz)								
Standby			Prime/DCP			Continuous			Standby			Prime/DCP			Continuous		
kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
727	667	834	663	607	759	471	425	531	836	755	944	762	685	856	544	479	599

- Generator efficiency (typical) : 94.5%
- kWm= kilo Watt mechanical, Gross power; kWe= kilo Watt electric = (kWm-Fan loss) x Generator eff.; kVA= kilo Volt Ampere
- Calculations based on a 0.8 power factor = kWe/0.8
- U.S. EPA TIER 2 Nonroad emission for Stationary Emergency Use Only. Prime/Continuous power rating for reference only.

DP222CAS

Generator Diesel Engine

GENERATOR

General Data

Type	Diesel, water cooled, Turbo charged & intercooled
Bore	128mm
Stroke	142mm
Displacement liter	21.9
Cylinders and Arrangement	Cast iron, 12 cylinder, Vee-Type
Battery charging alternator	24V x 45A alternator
Starting voltage	24V
Fuel System	Common Rail Direct Injection Controlled by ECU
Fuel Filter	Main(On Engine): Full flow, High efficiency dust in fuel filter, cartridge type Pre(Loosed Part): Full flow, cartridge type with water drain valve
Lube oil filter type(s)	Full flow, cartridge type
Lube oil capacity (l)	Max. 75 liters , Min. 23 liters
Flywheel dimensions	Clutch No. 18 M

Coolpac Data

Cooling method		Jacket Water and Charge Air Cooled
Cooling ratio		50% ethylene glycol; 50% water
Water capacity (L)	with radiator	66liters
	without radiator	24liters
Fan power (kWm)		21kW(50Hz), 37kW(60Hz)
Cooling system air flow(㎥/s)		21.1(50Hz), 25.2(60Hz)

Fuel Consumption

Fuel Consumption 1500 (50Hz)

%	kWm	BHP	Liters/hr	USgal/hr
Standby Power				
100	727.0	974.9	176.0	46.49

Fuel Consumption 1800 (60Hz)

%	kWm	BHP	Liters/hr	USgal/hr
Standby Power				
100	836.0	1121.1	205.0	54.16

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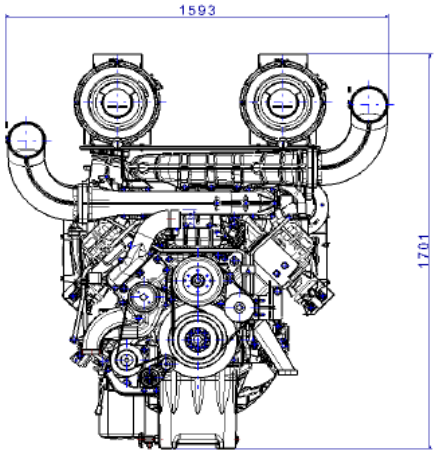
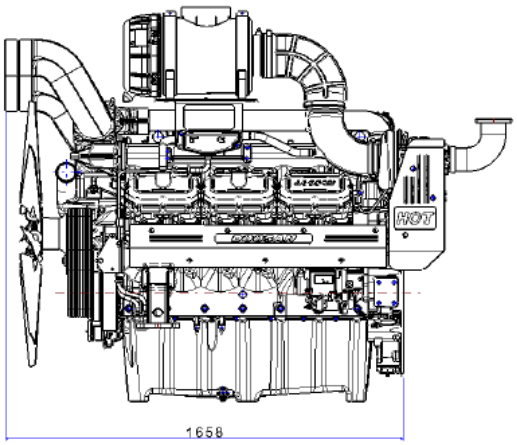
Generator Diesel Engine

GENERATOR

Dimensions





Weights and Dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
1,658	1,593	1,701	1,676

Power Rating Guide

The power ratings of Emergency Standby and Prime are in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046.
Electric power (kWe) must be considered cooling fan loss, alternator efficiency, altitude derating and ambient temperature.

ESP(STANDBY POWER) is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. A standby rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating.

※ Specifications are subject to change without prior notice.

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