

# GDD SERIES

**DOOSAN Powered**  
Diesel Generator

# GENPOWER®

GENERATOR

## GDD 470

Engine Speed rpm	Frequency Hz	Type of Operations	Genset Power		Engine Power (Net)	
			kVA	kW	kWm	bbh
1800	60	Prime Power	420	336	366	498
		Standby Power	470	376	402	546

STANDARD SPECIFICATIONS

### Engine

- DOOSAN Heavy duty diesel engine
- Revolution: 1800 rpm
- Water cooled
- Tropical type radiator

### Alternator

- VDE 0530 & IEC 34-1 standardizations
- Synchron type brushless
- Automatic voltage regulation (AVR)
- Overload acceptance: 110% for 1 hour, 150% for 2 minutes
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 VAC
- Voltage: 277/480 V three phase
- Voltage regulation:  $\pm 0,5\%$
- Protection class: IP23
- Power factor (cosq): 0,8
- Frequency: 60 Hz

### Manuel Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

### Automatic Control Panel

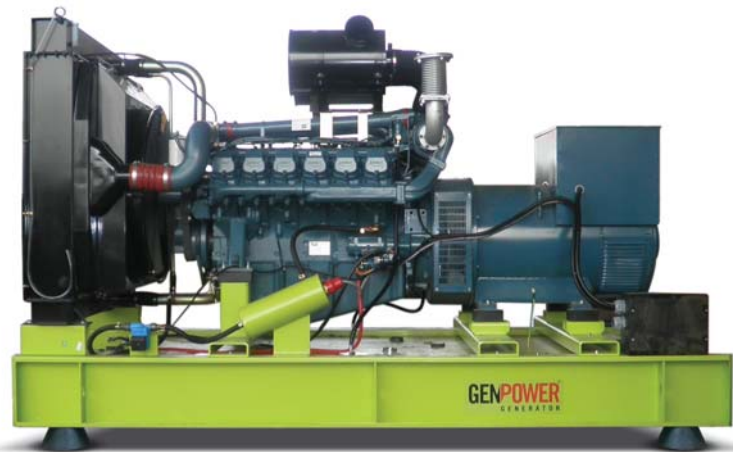
- Microprocessed AMF Electronic Control Panel
- Protection fuses
- Battery charger
- Power Transfer (For ATS)
- Emergency stop button

### Chassis

- Mounted on the steel base chassis
- Elastic vibration dampers between engine and chassis
- Chassis integrated fuel tank
- Dial type mechanical fuel indicator

### Canopy

- Easy lifting and moving
- Metal parts are coated with electrostatic polyester coated, powder painted
- Thermally insulated exhaust system
- Acoustic insulation with rot\*proof, moisture-repellent and non-flammable material (per DIN 4102 A2)



### ENGINE

Make	Doosan
Model	P158LE-1
Number of Cylinder	8
Cylinder arrangement	V-Type
Cycle	4 stroke
Aspiration	Turbocharged AAC*
Combustion system	Direct injection
Compression ratio	15:1
Bore and Stroke	mm 128 x 142
Displacement	lt 14.618
Cooling System	Water Cooled
Total coolant capacity	lt 88
Total lubrication	lt 28
Governor Type	Electronic
Electric System	24 VDC

Fuel Consumption %50 Loaded	lt/h	46,5
Fuel Consumption %75 Loaded	lt/h	67,5
Fuel Consumption % 100 Loaded	lt/h	91,3
Fuel Tank Cap. Open (canopy)	lt	1066 (399)

### DIMENSIONS

Width w/o Canopy (w/canopy)	mm	1500 (1600)
Length w/o Canopy (w/canopy)	mm	3200 (4600)
Height w/o Canopy (w/canopy)	mm	2170 (2600)
Weight w/o Canopy (w/canopy)	kg	3155 (4045)

TECHNICAL SPECIFICATIONS

\* AAC (Air-to-Air-Cooling): Charged hot air by turbo is cooled by the air radiator in the system.

\*\* WAC (Water-to-Air-Cooling): Charged hot air by turbo is cooled by water in the cooling system.

GENPOWER, reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments.