

Output Ratings

Genset Model	Prime ¹	Standby ²
380-415V, 50Hz	100kVA / 80kW	110kVA / 88kW
480V, 60Hz	TBA	TBA

Ratings are given at 0.8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
2150/2880	1100/1100	1670/1720	1137/1447	-

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Volvo TAD531GE
Number of Cylinders:	4 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	108 / 130
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	18:1
Displacement [lt] :	4.76
Electrical Sys. Voltage	12V/Negative
Battery Charger Amps.	55A

Lubrication System

Total Oil Capacity [lt] :	13
Oil Type :	API: CG-4, CH-4 15W-40
Oil Cooling Method :	Water

Fuel System

Fuel Filter Type :	Replaceable Element
Recommended Fuel :	ASTM-D975-No1 and 2-D

Fuel Consumption [lt] :

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50Hz	26,5	23,9	17,9	12,3
60Hz	-	-	-	-

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50Hz	26,5	19,7	13,6	
60Hz	-	-	-	-

(Based on diesel fuel with a spec. gravity of 0,84 and complied with BS2869, Class A2)

Alternator Data

Manufacturer :	Linz Electric
Model :	PRO22S D/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	90.6%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	113

1-Prime Rating: These ratings are applicable for supplying continuous electrical power (at variable load) of commercially purchased power. There is no limitation to the annual hours of operation, this model can supply 10% overload power 1 hour in each 12 hours.

2-Standby Rating: These ratings are applicable for supplying continuous electrical power (at variable load) in the event of an utility power failure.No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528)

Cooling System

	50Hz	60Hz
Cooling System Capacity [lt] :	12.5	-
Heat rejected to Water & Lube Oil [kW]:		
Prime	47.4	-
Standby	52.5	-
Heat Radiation to Room [kW] :		
Prime	9	-
Standby	10	-
Radiator Fan Load [kW] :	4.2	-
Radiator Cooling Air Flow [m ³ /min] :	90	-
External Restrictions to :		
Cooling Airflow [Pa] :	150	-

Exhaust System

	50Hz	60Hz
Max. Allowable Back Pressure [kPa] :	5.0	-
Exhaust Gas Flow [m ³ /min] :		
Prime	16.7	-
Standby	18.4	-
Exhaust Gas Temp. [°C] :		
Prime	544	-
Standby	557	-

Performance

	50Hz	60Hz
Engine Speed [rpm] :	1500	-
Gross Engine Power [kW] :		
Prime	92,0	-
Standby	102,0	-

Air Systems

	50Hz	60Hz
Air Filter Type :	Replaceable Element	
Combustion Air Flow [m ³ /min] :		
Prime	-	-
Standby	6.08	-

Max. Combustion Air Intake

Restriction [kPa] :	3.5	-
---------------------	-----	---

Available Options

Diamond offers a range of optional features to tailor our gensets to meet your power requirements.

Options:

* A wide range of Sound Attenuated Enclosures

* A variety of generating set control and synchronising panels

* Additional alarms and shutdowns

* A selection of exhaust silencer noise levels

For further information on all of the standard and optional

features for this product, please contact DIAMOND or

visit www.diamondcable.com.tr