

Output Ratings

Genset Model	Prime ¹	Standby ²
380-415V, 50Hz	155kVA / 124kW	170kVA / 136kW
480V, 60Hz	TBA	TBA

Ratings are given at 0,8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
2650/3440	1100/1100	1480/1950	1514/1888	-

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Volvo TAD731GE
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	108 / 130
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Mechanic
Compression Ratio :	18:01
Displacement [lt] :	7.15
Electrical Sys. Voltage	12V/Negative
Battery Charger Amps.	55A

Lubrication System

Total Oil Capacity [lt] :	20
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% Load	100% Load	75% Load	50% Load
Prime				
50Hz	39,2	35,3	26,6	18,4
60Hz	-	-	-	-

	110% Load	100% Load	75% Load	50% Load
Standby				
50Hz		39,2	29,1	20,2
60Hz		-	-	-

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

Alternator Data

Manufacturer :	Linz Electric
Model :	PRO22M F/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	92.6%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	169.5

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] :	14	-
Heat rejected to Water & Lube Oil [kW]:		
Prime	62	-
Standby	68	-
Heat Radiation to Room [kW] :		
Prime	14	-
Standby	15	-
Radiator Fan Load [kW] :	3.8	-
Radiator Cooling Air Flow [m ³ /min] :	126	-
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	27.5	-
Standby	30.2	-
Exhaust Gas Temp. [°C] :		
Prime	520	-
Standby	540	-

Performance

	50Hz	60Hz
Engine Speed [rpm] :	1500	-
Gross Engine Power [kW] :		
Prime	138	-
Standby	153	-

Air Systems

	50Hz	60Hz
Air Filter Type :	Replaceable Element	
Combustion Air Flow [m ³ /min] :		
Prime	9.86	-
Standby	10.65	-
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