

DIA-V 145

Output Ratings			
Genset Model	Prime ¹	Standby ²	
380-415V, 50Hz	130kVA / 104kW	145kVA / 116kW	
480V, 60Hz	ТВА	ТВА	
Dating a sup given at 0.0 mayor factor			

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	1212/1522	
Dry: With Lube Oil	Wet: Wi	th Lube Oil & Coolant		

Dry: With Lube Oil V Without capopy/ with capopy

without	canopy/	with canopy

Engine Technical Data	
Engine Model :	Volvo TAD532GE
Number of Cylinders:	4 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	108 / 130
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	18:01
Displacement [It] :	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 Eleme	ent	
Recommended F	uel :	ASTM-D975-No1 and 2-D			
Fuel Consumpti	on [lt] :				
	110%	100%	75%	50%	
Prime	Load	Load	Load	Load	
50Hz	32,9	29,6	21,8	14,7	
60Hz	-	-	-	-	
	110%	100%	75%	50%	
Standby	Load	Load	Load	Load	

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50Hz		32,9	24,4	16,2
60Hz		-	-	-

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

Alternator Dat

Anternator Bata	
Manufacturer :	Linz Electric
Model :	PRO22M E/4
No. of Bearings :	Single
Insulation Class:	н
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	92.3%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Appearent power [kVA]:	147

Cooling System		50Hz	60Hz
Cooling System Capacity [lt] :		13	-
Heat rejected to Water & Lub	e Oil [kW]:		
	Prime	63	-
	Standby	56	-
Heat Radiation to Room [kW]	:		
	Prime	12	-
	Standby	13	-
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] :		
		3.0	-
Exhaust Gas Flow [m ³ /min] :			

	Prime	21.2	-
	Standby	23.2	-
Exhaust Gas Temp. [[°] C] :			
	Prime	507	-
	Standby	532	-

Performance		50Hz	60Hz
Engine Speed [rpm] :		1500	-
Gross Engine Power [kW] :			
	Prime	116	-
	Standby	129	-

Air Systems		50Hz	60Hz
Air Filter Type :		Replaceable Element	
Combustion Air Flow [m ³ /min] :			
	Prime	7.55	-
	Standby	8.03	-
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

1-Prime Rating:

g: 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)