

DIA-V 500

Output Ratings			
Genset Model	Prime ¹	Standby ²	
380-415V, 50Hz	450.0kVA / 360.0kW	500.0kVA / 400.0kW	
480V, 60Hz	ТВА	ТВА	
Ratings are given at 0,8 power factor			

Dimension & Weight				
Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
3450/4360	1450/1450	1790/2500	3290/4205	-
Dry: With Lube Oil Wet: With Lube Oil & Coolant				

Without canopy/ with canopy

Without canopy/ with canopy	
Engine Technical Data	
Engine Model :	Volvo TAD1345GE
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	131 / 158
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	18.1:1
Displacement [lt] :	12.78
Electrical Sys. Voltage	24V/Negative
Battery Charger Amps.	80A

Lubrication System	
Total Oil Capacity [lt] :	36
Oil Type :	API: CG-4, CH-4 15W-40
Oil Cooling Method :	Water

Fuel System				
Fuel Filter Type : Replaceable Element			ent	
Recommended Fuel : A			ASTM-D975-No1 and 2-D	
Fuel Consump	tion [lt] :			
	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50Hz	102,9	92,9	70,0	47,1
60Hz	-	-	-	-
	110%	100%	75%	50%

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50Hz		102,9	76,6	51,9
60Hz		-	-	-

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

Alternator Data

Manufacturer :	Linz Electric
Model :	PRO35SB/4
No. of Bearings :	Single
Insulation Class:	н
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	94.2%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Appearent power [kVA]:	495

Cooling System		50Hz	60Hz
Cooling System Capacity [lt] :		24.0	-
Heat rejected to Water & Lube Oil	[kW]:		
	Prime	145	-
	Standby	160	-
Heat Radiation to Room [kW] :			
	Prime	15	-
	Standby	17	-
Radiator Fan Load [kW] :		10	-
Radiator Cooling Air Flow [m ³ /min	ו] :	348	-
External Restrictions to :			
Cooling Airflow [Pa] :		261	-
Exhaust System		50Hz	60Hz

 Max. Allowable Back Pressure [kPa]:
 10.0

 Exhaust Gas Flow [m³/min]:
 Frime
 56.8

 Standby
 58.3

 Exhaust Gas Temp. [°C]:
 Frime
 475

 Standby
 570

	50Hz	60Hz
	1500	-
Prime	398	-
Standby	441	-
		1500 Prime 398

Air Systems		50Hz	60Hz
Air Filter Type :		Replaceable Element	
Combustion Air Flow [m ³ /min] :			
	Prime	26.8	-
	Standby	27.6	-
Max. Combustion Air Intake			
Restriction [kPa] :		5.0	-

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:

reg: 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)