

**DIA-V350** 

Output Ratings			
Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>	
380-415V, 50Hz	320kVA / 256kW	350kVA / 280kW	
480V, 60Hz	ТВА	ТВА	
Dational states of 0.0			

## Ratings are given at 0,8 power factor

Dimension & Weight					
Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]	
3350/4260	1300/1300	1730/1980	2800/3400	TBA	

Dry: With Lube Oil Wet: With Lube Oil & Coolant

Without canopy	// with canopy

Engine Technical Data	
Engine Model :	Volvo TAD1341GE
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	24 / 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			
Recommended F	uel :	ASTM-D975-No1 and 2-D			
Fuel Consumpti	on [lt] :				
	110%	100%	75%	50%	
Prime	Load	Load	Load	Load	
50Hz	70,0	63,9	48,9	33,7	
60Hz	-	-	-	-	
	110%	100%	75%	50%	
Standby	Load	Load	Load	Load	

70,0

53,4

36,6

60Hz	-	-	-

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

## Alternator Dat

50Hz

Manufacturer :	Linz Electric
Model :	PRO28ME/4
No. of Bearings :	Single
Insulation Class:	н
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	92.9%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Appearent power [kVA]:	360

Cooling System		50Hz	60Hz
Cooling System Capacity [It] :		44	-
Heat rejected to Water & Lube O	Dil [kW]:		
	Prime	124	-
	Standby	133	-
Heat Radiation to Room [kW] :			
	Prime	8	-
	Standby	10	-
Radiator Fan Load [kW] :		6	-
Radiator Cooling Air Flow [m <sup>3</sup> /n	nin] :	264	-
External Restrictions to :			
Cooling Airflow [Pa] :		315	-
Exhaust System		50Hz	60Hz
Max. Allowable Back Pressure [k	:Pa] :		
		10	-
Exhaust Gas Flow [m <sup>3</sup> /min] :			
	Prime	49	-
	Standby	52	-
Exhaust Gas Temp. [ <sup>°</sup> C] :			
	Prime	405	-

	50Hz	60Hz
	1500	-
Prime	281	-
Standby	308	-
		1500 Prime 281

414

Standby

Air Systems		50Hz	60Hz
Air Filter Type :		Replaceabl	e Element
Combustion Air Flow [m <sup>3</sup> /min] :			
	Prime	22.7	-
	Standby	24.1	-
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: 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)

Standard Reference Conditions: Standart reference conditions 25'C Air Inlet Temp. 100m, 30% relative humidity.