DIA-V 450

Output Ratings

Genset Model	Prime[1]	Standby[2]
380-415V, 50Hz	410.0kVA / 328.0kW	450.0kVA / 360.0kW
480V, 60Hz	TBA	TBA

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	3022/3622	-

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

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Volvo TAD1344GE
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
Recommended Fuel :	ASTM-D975-No1 and 2-D

Fuel Consumption [lt] :

Prime	110% Load	100% Load	75% Load	50% Load
50Hz	92,2	84,1	62,7	43,3
60Hz	-	-	-	-

Standby	110% Load	100% Load	75% Load	50% Load
50Hz		92,2	69,4	47,7
60Hz		-	-	-

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

Alternator Data

Manufacturer :	Linz Electric
Model :	PRO28L G/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	6
Protection Class :	IP23
Efficiency:	93.8%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Appearent power [kVA]:	450

Cooling System

		50Hz	60Hz
Cooling System Capacity [lt] :		24	-
Heat rejected to Water & Lube Oil [kW]:			
	Prime	143	-
	Standby	155	-
Heat Radiation to Room [kW] :			
	Prime	13	-
	Standby	15	-
Radiator Fan Load [kW] :		10	-
Radiator Cooling Air Flow [m^3/min] :		300	-
External Restrictions to :			
Cooling Airflow [Pa] :		528	-

Exhaust System

		50Hz	60Hz
Max. Allowable Back Pressure [kPa] :			
		10.0	-
Exhaust Gas Flow [m^3/min] :			
	Prime	63.5	-
	Standby	67.5	-
Exhaust Gas Temp. [$^\circ$C] :			
	Prime	440	-
	Standby	465	-

Performance

		50Hz	60Hz
Engine Speed [rpm] :		1500	-
Gross Engine Power [kW] :			
	Prime	364	-
	Standby	399	-

Air Systems

		50Hz	60Hz
Air Filter Type :		Replaceable Element	
Combustion Air Flow [m^3/min] :			
	Prime	27	-
	Standby	28	-
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)