

## Output Ratings

Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>
380-415V, 50Hz	600kVA / 480kW	660kVA / 528kW
480V, 60Hz	TBA	TBA

Ratings are given at 0,8 power factor

## Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
3650/4670	1640/1640	2100/2500	4065/4986	-

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

Without canopy/ with canopy

## Engine Technical Data

Engine Model :	Volvo TAD1642GE
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	144 / 165
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	16.5:1
Displacement [lt] :	16.12
Electrical Sys. Voltage	24V/Negative
Battery Charger Amps.	80A

## Lubrication System

Total Oil Capacity [lt] :	48
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%	100%	75%	50%
Prime	Load	Load	Load	Load
50Hz	133,9	121,8	90,0	60,0
60Hz	-	-	-	-

Standby	110%	100%	75%	50%
	Load	Load	Load	Load
50Hz	133,9	100,5	66,0	
60Hz	-	-	-	-

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

## Alternator Data

Manufacturer :	Linz Electric
Model :	PRO35M E/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	6
Protection Class :	IP23
Efficiency:	95%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	660

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] :	60.0	-
Heat rejected to Water & Lube Oil [kW]:		
Prime	187	-
Standby	218	-
Heat Radiation to Room [kW] :		
Prime	18	-
Standby	20	-
Radiator Fan Load [kW] :	11	-
Radiator Cooling Air Flow [m <sup>3</sup> /min] :	492	-
External Restrictions to :		
Cooling Airflow [Pa] :	616	-

## Exhaust System

	50Hz	60Hz
Max. Allowable Back Pressure [kPa] :	10	-
Exhaust Gas Flow [m <sup>3</sup> /min] :		
Prime	94.4	-
Standby	102.5	-
Exhaust Gas Temp. [ °C ] :		
Prime	456	-
Standby	482	-

## Performance

	50Hz	60Hz
Engine Speed [rpm] :	1500	-
Gross Engine Power [kW] :		
Prime	514	-
Standby	565	-

## Air Systems

	50Hz	60Hz
Air Filter Type :	Replaceable Element	
Combustion Air Flow [m <sup>3</sup> /min] :		
Prime	39	-
Standby	41.2	-

Max. Combustion Air Intake

Restriction [kPa] :	5.0	-
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## 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](http://www.diamondcable.com.tr)