

Output Ratings			
Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>	
380-415V, 50Hz	135kVA / 108kW	150kVA / 120kW	

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	1297/1670		
Drv: With Lube Oil	Wet: Wi	th Lube Oil & Coolant			

Without canopy/ with canopy

Engine Technical Data	
Engine Model :	Perkins 1106-70TG1
Number of Cylinders:	6 / Inline
Cycle:	4 Stroke
Bore / Stroke [mm] :	105 / 130
Induction:	Turbocharged
Cooling Method :	Water
Governor Type :	Mechanic
Compression Ratio :	18.2:1
Displacement [lt]:	7.01
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	55

Cooling System		50Hz
Cooling System Capacity [lt]:		21
Heat rejected to Water & Lube C	il [kW]:	
	Prime	75.7
	Standby	76.8
Heat Radiation to Room [kW] :		
	Prime	8.3
	Standby	9.1
Radiator Fan Load [kW]:		5.7
Radiator Cooling Air Flow [m³/m	nin] :	182

Lubrication System		
Total Oil Capacity [lt]:	16.5	
Oil Type :	API CH4- or CI4	
Oil Cooling Method:	Water	

Oil Cooling Method :	Water
Fuel System	
Fuel Filter Type :	Replaceable Element
Recommended Fuel:	Class A2 Diesel

Fuel Consumption	n [it] :			
	110%	100%	75%	50%
Prime	Load	Load	Load	Load
riiiie	Load	Loau	Loau	Load
50Hz	33.8	30.2	22.1	15.6

Max. Allowable Back Pressure [kl	Pa]:		
		6.0	
Exhaust Gas Flow [m³/min]:			
	Prime	18.9	
	Standby	20.5	
Exhaust Gas Temp. [°C]:			
	Prime	561	
	Standby	301	
Performance		50Hz	
Engine Speed [rpm]:		1500	
Gross Engine Power [kW] :			
	Prime	123.7	

Air Systems		50Hz
Air Filter Type :		Replaceable Element
Combustion Air Flow [m³/min]:		
	Prime	7.22
	Standby	7.6

136.9

Standby

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

Alternator Data	
Manufacturer :	Linz Electric
Model:	PRO22M F/4
No. of Bearings :	Single
Insulation Class:	н
Winding Pitch :	2/3
Number of Wire :	12
Protection Class:	IP23
Efficiency:	92.6%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Appearent power [kVA]:	169

## Available Options

Exhaust System

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  $\operatorname{DIAMOND}$  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)