

Output Ratings			
Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>	
380-415V, 50Hz	100kVA / 80kW	110kVA / 88kW	
480V, 60Hz	TBA	ТВА	

Ratings are given at 0,8 power factor

Dimension & Weight				
Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
2150/2880	1100/1100	1210/1720	960/1270	
Dry: With Lube Oil	Wet: With Lube Oil & Coolant			

Without canopy/ with canopy

Engine Technical Data	
Engine Model :	Perkins 1104C-44TAG2
Number of Cylinders:	4 / Inline
Cycle:	4 Stroke
Bore / Stroke [mm] :	105.0 / 127.0
Induction:	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	18.2:1
Displacement [lt]:	4.4
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	65

Lubrication System	
Total Oil Capacity [lt]:	8.0
Oil Type :	API CC/SE 15W-40
Oil Cooling Method :	Water

Fuel System	
Fuel Filter Type :	Replaceable Element
Recommended Fuel:	Class A2 Diesel
Fuel Consumption [It]:	

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50Hz	24.9	22.6	17.1	11.2

Cooling System		50Hz	
Cooling System Capacity [lt]:		12.6	
Heat rejected to Water & Lube Oil [	kW]:		
	Prime	46.1	
	Standby	50.7	
Heat Radiation to Room [kW] :			
	Prime	14.6	
	Standby	16.5	
Radiator Fan Load [kW] :		2.8	
Radiator Cooling Air Flow [m³/min]	:	187.8	
External Restrictions to:			
External Restrictions to :  Cooling Airflow [Pa] :		125	

Exhaust System		50Hz
Max. Allowable Back Pressure [kPa]	l:	
		18.0
Exhaust Gas Flow [m³/min]:		
	Prime	15.2
	Standby	16.3
Exhaust Gas Temp. $[^{\circ}C]$ :		
	Prime	514
	Standby	543
Performance		50Hz
Engine Speed [rpm]:		1500
Gross Engine Power [kW]:		
	Prime	93.6
	Standby	103.0

Air Systems		50Hz
Air Filter Type :		Replaceable Element
Combustion Air Flow [m³/min]:		
	Prime	6.0
	Standby	6.3
Max. Combustion Air Intake		

8.0

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

Alternator Data		
Manufacturer :		Linz Electric
Model :		PRO22S D/4
No. of Bearings :		Single
Insulation Class:		н
Winding Pitch :		2/3
Number of Wire :		12
Protection Class :		IP23
Efficiency:		90.6%
Voltage Regulation (Steady State) :		1.0%
Total Harmonic Content:		4.0%
Appearent power [kVA]:		113
Radiant Heat [Kw]:		
	50Hz	7.6
	60Hz	TBA

## Available Options

Restriction [kPa]:

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

visit www.diamondcable.com.tr

\* 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

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)