

Output Ratings			
Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>	
380-415V, 50Hz	20kVA / 16kW	22kVA / 17.6kW	
480V, 60Hz	TBA	TBA	

Ratings are given at 0,8 power factor

Dimension & Weight				
Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
1550/1960	900/900	1000/1380	540/865	546.5/871.5
Dry: With Lube Oil	: With Lube Oil Wet: With Lube Oil & Coolant			

Without canopy/ with canopy

Engine Technical Data	
Engine Model :	Perkins 404A-22G1
Number of Cylinders:	4 / Inline
Cycle:	4 Stroke
Bore / Stroke [mm] :	84.0 / 100.0
Induction:	Naturally Aspirated
Cooling Method :	Water
Governor Type :	Mechanical
Compression Ratio :	23.3:1
Displacement [lt]:	2.2
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	15

Lubrication System	
Total Oil Capacity [lt]:	10.6
Oil Type :	API CH4 15W-40
Oil Cooling Method :	-

Fuel System				
Fuel Filter Type : Replaceable Element				
Recommended Fue	l:		Class A2 Diesel	
Fuel Consumption [	lt] :			
	110%	100%	75%	50%

60Hz				
	110%	100%	75%	50%

5.3

4

2.9

50Hz 60Hz

6.1

50Hz

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

Alternator Data		
Manufacturer :		Linz Electric
Model:		PRO 18SA/4
No. of Bearings :		Single
Insulation Class:		Н
Winding Pitch :		2/3
Number of Wire :		12
Protection Class:		IP23
Efficiency:		86.1%
Voltage Regulation (Steady State) :		1.0%
Total Harmonic Content:		4.0%
Appearent power [kVA]:		23
Radiant Heat [Kw]:		
	50Hz	2.7
	60Hz	TBA

Cooling System		50Hz	60Hz
Cooling System Capacity [lt]:		6.5	6.5
Heat rejected to Water & Lube Oil	[kW]:		
	Prime	17.0	19.9
	Standby	19.6	22.2
Heat Radiation to Room [kW]:			
	Prime	5.7	6.3
	Standby	7.1	7.4
Radiator Fan Load [kW]:		0.2	0.4
Radiator Cooling Air Flow [m³/min	]:	33.0	41.4
External Restrictions to:			
Cooling Airflow [Pa]:		125	125

Exhaust System		50Hz	60Hz
Max. Allowable Back Pressure [kPa	]:		
		10.2	10.2
Exhaust Gas Flow [m³/min]:			
	Prime	3.6	4.3
	Standby	3.9	4.8
Exhaust Gas Temp. [°C]:			
	Prime	445	440
	Standby	505	510
Performance		50Hz	60Hz
Engine Speed [rpm]:		1500	1800
Gross Engine Power [kW]:			
	Prime	18.4	
	Standby	20.3	

Air Systems		50Hz	60Hz
Air Filter Type :		Replaceable Element	
Combustion Air Flow [m³/min]:			
	Prime	1.5	
	Standby	1.5	
Max. Combustion Air Intake			
Restriction [kPa]:		3.0	

## 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)