DIA- S 100

Output Ratings

Genset Model	Prime[1]	Standby[2]
380-415V, 50Hz	88 kVA / 70.4 kW	97 kVA / 77.6 kW
480V, 60Hz	-	-

Ratings are given at 0,8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
2150 / 2880	1100 / 1100	1350 / 1720	1250 / 1660	1275 / 1685

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

Without canopy/ with canopy

Engine Technical Data

Engine Model :	SDEC - SC4H 115D2
Number of Cylinders:	4 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	105 / 124
Induction :	Turbocharged
Cooling Method :	Water cooled
Governor Type :	Electronic
Compression Ratio :	17.3:1
Displacement [lt] :	4.3
Electrical Sys. Voltage	24 / Negative

Cooling System

	50Hz
Cooling System Capacity [lt] :	25

Lubrication System

Total Oil Capacity [lt] :	13

Exhaust System

	50Hz
Max. Allowable Back Pressure [kPa] :	6
Exhaust Gas Temp. [°C] :	600

Fuel System

Fuel Filter Type :	Replaceable Element
Recommended Fuel :	Class A2 Diesel

Fuel Consumption [lt] :

Prime	110% Load	100% Load	75% Load	50% Load
50Hz	22.1	20.2	15.2	10.3

Fuel Tank Capacity (L):

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

Performance

		50Hz
Engine Speed [rpm] :		1500
Gross Engine Power [kW] :		
	Prime	78
	Standby	86

Air Systems

	50Hz
Air Filter Type :	Replaceable Element

Alternator Data

Manufacturer :	LINZ
Model :	PRO 22 SC/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	90.3%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Appearent power [kVA]:	96

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)

Standard Reference Conditions: Standart reference conditions 25'C Air Inlet Temp. 100m, 30% relative humidity.