DIA-P 33

Output Ratings

Genset Model	Prime[1]	Standby[2]
380-415V, 50Hz	30.0kVA / 24.0kW	33kVA / 26.4kW
480V, 60Hz	TBA	TBA

Ratings are given at 0,8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
1750/2190	1000/1000	1130/1450	724/1080	724/1050

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

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Perkins 1103A-33G
Number of Cylinders:	3 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	105.0 / 127.0
Induction :	Naturally Aspirated
Cooling Method :	Water
Governor Type :	Mechanical
Compression Ratio :	19.25:1
Displacement [lt] :	3.3
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	65

Lubrication System

Total Oil Capacity [lt] :	8.3
Oil Type :	API CG4/CH4 15W-40
Oil Cooling Method :	Water

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	7.7	7.0	5.2	3.8
60Hz	9.0	8.1	6.2	4.7

Standby	110% Load	100% Load	75% Load	50% Load
50Hz		7.7	5.7	4.1
60Hz		9.0	6.8	5.0

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

Alternator Data

Manufacturer :		Linz Electric
Model :		PRO18S C/4
No. of Bearings :		Single
Insulation Class:		H
Winding Pitch :		2/3
Number of Wire :		12
Protection Class :		IP23
Efficiency:		87.1%
Voltage Regulation (Steady State) :		1.0%
Total Harmonic Content:		4.0%
Appearent power [kVA]:		34
Radiant Heat [Kw]:		
	50Hz	3.16
	60Hz	TBA

Cooling System

		50Hz	60Hz
Cooling System Capacity [lt] :		10.2	10.2
Heat rejected to Water & Lube Oil [kW]:			
	Prime	16.0	18.0
	Standby	18.0	22.0
Heat Radiation to Room [kW] :			
	Prime	7.9	8.2
	Standby	9.3	9.7
Radiator Fan Load [kW] :		0.3	0.5
Radiator Cooling Air Flow [m^3/min] :		62.6	84.8
External Restrictions to :			
Cooling Airflow [Pa] :		125	125

Exhaust System

		50Hz	60Hz
Max. Allowable Back Pressure [kPa] :			
		8.0	10.0
Exhaust Gas Flow [m^3/min] :			
	Prime	5.7	6.4
	Standby	5.8	6.6
Exhaust Gas Temp. [$^\circ$C] :			
	Prime	500	520
	Standby	520	530

Performance

		50Hz	60Hz
Engine Speed [rpm] :		1500	1800
Gross Engine Power [kW] :			
	Prime	28.2	33.1
	Standby	31.0	36.5

Air Systems

		50Hz	60Hz
Air Filter Type :		Replaceable Element	
Combustion Air Flow [m^3/min] :			
	Prime	2.2	2.6
	Standby	2.2	2.6
Max. Combustion Air Intake			
Restriction [kPa] :		6.5	6.5

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.