

Output Ratings		
Genset Model	Prime ¹	Standby ²
380-415V, 50Hz	45kVA / 36kW	48kVA / 38.4kW
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	780/1105	

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

Without canopy/ with canopy

Engine Technical Data	
Engine Model :	Perkins 1103A-33TG1
Number of Cylinders:	3 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	105.0 / 127.0
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Mechanical
Compression Ratio :	17.25:1
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] :	
	110% 100% 75% 50%
Prime	Load Load Load Load
50Hz	11.2 9.9 7.4 5.2
60Hz	13.5 11.9 9.1 6.7

	110% 100% 75% 50%
Standby	Load Load Load Load
50Hz	11.2 8.2 5.7
60Hz	13.5 10.1 7.3

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

Alternator Data	
Manufacturer :	Linz Electric
Model :	PRO18M E/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	89.3%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	47
Radiant Heat [Kw]:	
	50Hz 3.69
	60Hz TBA

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)

Cooling System	50Hz	60Hz
Cooling System Capacity [lt] :	10.2	10.2
Heat rejected to Water & Lube Oil [kW]:		
	Prime	26.1 31.0
	Standby	30.0 34.0
Heat Radiation to Room [kW] :		
	Prime	11.9 13.5
	Standby	13.8 15.6
Radiator Fan Load [kW] :	0.9	1.7
Radiator Cooling Air Flow [m ³ /min] :	86.4	105.6
External Restrictions to :		
Cooling Airflow [Pa] :	120	120

Exhaust System	50Hz	60Hz
Max. Allowable Back Pressure [kPa] :		
	10.0	15.0
Exhaust Gas Flow [m ³ /min] :		
	Prime	7.0 8.8
	Standby	7.7 9.5
Exhaust Gas Temp. [°C] :		
	Prime	492 510
	Standby	537 551

Performance	50Hz	60Hz
Engine Speed [rpm] :	1500	1800
Gross Engine Power [kW] :		
	Prime	42.2 50.5
	Standby	46.4 55.6

Air Systems	50Hz	60Hz
Air Filter Type :	Replaceable Element	
Combustion Air Flow [m ³ /min] :		
	Prime	2.9 3.7
	Standby	3.1 3.9

Max. Combustion Air Intake		
Restriction [kPa] :	8.0	8.0

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