DIA-M 46

Output Ratings

Genset Model	Prime[1]	Standby[2]
380-415V, 50Hz	40,7 kVA / 32,5 kW	45,6 kVA / 36,5 kW
480V, 60Hz	-	-

Ratings are given at 0,8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
1750/2190	1000/1000	1120/1450	780/1105	

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

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Mitsubishi - S4S - DT
Number of Cylinders:	4 - Inline
Cycle :	4
Bore / Stroke [mm] :	94 x 120
Induction :	Natural
Cooling Method :	Water
Governor Type :	Mechanic
Compression Ratio :	17,0:1
Displacement [lt] :	3,33
Electrical Sys. Voltage	12 V
Battery Charger Amps.	

Cooling System

		50Hz
Cooling System Capacity [lt] :		10
Heat rejected to Water & Lube Oil [kW]:		
	Prime	
	Standby	
Heat Radiation to Room [kW] :		
	Prime	
	Standby	
Radiator Fan Load [kW] :		
Radiator Cooling Air Flow [m^3/min] :		
External Restrictions to :		
Cooling Airflow [Pa] :		

Lubrication System

Total Oil Capacity [lt] :	10
Oil Type :	API CD 15W-40
Oil Cooling Method :	

Exhaust System

		50Hz
Max. Allowable Back Pressure [kPa] :		
		.....
Exhaust Gas Flow [m^3/min] :		
	Prime	.....
	Standby	....
Exhaust Gas Temp. [$^\circ$C] :		
	Prime	...
	Standby	....

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	12	10,4	8,1	4,5

(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	36,8
	Standby	40,5

Air Systems

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

Alternator Data

Manufacturer :	LINZ Electric
Model :	PRO 18 ME/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%
Total Harmonic Content:	3.0%
Appearent power [kVA]:	48

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)