

Output Ratings		
Genset Model	Prime ¹	Standby ²
380-415V, 50Hz	600kVA / 480kW	660kVA / 528kW
480V, 60Hz	-	-

Ratings are given at 0,8 power factor

Dimension & Weight				
Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
3650/4670	1640/1640	2210/2500	4400/5505	4445/5560

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

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Perkins 2806A-E18TAG1
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	145.0 / 183.0
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	14.5:1
Displacement [lt] :	18.13
Electrical Sys. Voltage	24 / Negative
Battery Charger Amps.	40

Lubrication System

Total Oil Capacity [lt] :	62
Oil Type :	API CG-4/ APEA E-5 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	130.7	120.0	87.8	59.5
60Hz	-	-	-	-

Standby	110%	100%	75%	50%
	Load	Load	Load	Load
50Hz		130.7	99.0	65.4
60Hz	-	-	-	-

(Based on diesel fuel with a spec. gravity of 0,84 and complied with B52869, Class A2)

Alternator Data

Manufacturer :	Linz
Model :	PRO 35ME/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	6
Protection Class :	IP23
Efficiency:	95%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	3.0%
Apparent power [kVA]:	660

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] :	45.3	-	
Heat rejected to Water & Lube Oil [kW]:	Prime	208.0	-
	Standby	222.0	-
Heat Radiation to Room [kW] :	Prime	38.0	-
	Standby	42.0	-
Radiator Fan Load [kW] :	9.0	-	
Radiator Cooling Air Flow [m ³ /min] :	702.0	-	
External Restrictions to :			
Cooling Airflow [Pa] :	TBA	-	

Exhaust System

	50Hz	60Hz	
Max. Allowable Back Pressure [kPa] :	6.9	-	
Exhaust Gas Flow [m ³ /min] :	Prime	96.0	-
	Standby	104.0	-
Exhaust Gas Temp. [°C] :	Prime	568	-
	Standby	571	-

Performance

	50Hz	60Hz	
Engine Speed [rpm] :	1500	-	
Gross Engine Power [kW] :	Prime	539.7	-
	Standby	592.7	-

Air Systems

	50Hz	60Hz	
Air Filter Type :	Replaceable Element		
Combustion Air Flow [m ³ /min] :	Prime	34.0	-
	Standby	36.0	-
Max. Combustion Air Intake			
Restriction [kPa] :	6.4	-	

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