

Output Ratings

Genset Model	Prime ¹	Standby ²
380-415V, 50Hz	200 kVA / 160 kW	220 kVA / 176 kW
480V, 60Hz	-	-

Ratings are given at 0,8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]
2650/3440	1100/1100	1480/1950	1570/1940

Dry: With Lube Oil

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Perkins 1106A-70TAG4
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	105 / 135
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	16:01
Displacement [lt] :	7.01
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	45

Lubrication System

Total Oil Capacity [lt] :	16,5
Oil Type :	API CH4/CG4 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%
	Load	Load	Load	Load
50Hz	49,4	45,8	34,7	23,1

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

Alternator Data

Manufacturer :	LINZ
Model :	PRO28S B/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	91.7%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	220

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

Cooling System Capacity [lt] :	21
Heat rejected to Water & Lube Oil [kW]:	
Prime	78,2
Standby	81
Heat Radiation to Room [kW] :	
Prime	12,8
Standby	13,2
Radiator Fan Load [kW] :	5
Radiator Cooling Air Flow [m ³ /min] :	282

Exhaust System

50Hz

Max. Allowable Back Pressure [kPa] :	6
Exhaust Gas Flow [m ³ /min] :	
Prime	35
Standby	
Exhaust Gas Temp. [°C] :	
Prime	580
Standby	

Performance

50Hz

Engine Speed [rpm] :	1500
Gross Engine Power [kW] :	
Prime	178
Standby	196

Air Systems

50Hz

Air Filter Type :	Replaceable Element
Combustion Air Flow [m ³ /min] :	
Prime	12,6
Standby	

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