

Output Ratings			
Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>	
380-415V, 50Hz	400kVA / 320kW	450kVA / 360kW	
I80V 60Hz	_	_	

Ratings are given at 0,8 power factor

Dimension & Weight				
Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
3340/4519	1100/1687	1920/2400	2788/3488	2833.2/3533.2
Dry: With Lube Oil	Wet: With Lube Oil & Coolant			

Without canopy/ with canopy

60Hz

Engine Technical Data	
Engine Model :	Perkins 2206A-E13TAG3
Number of Cylinders:	6 / Inline
Cycle:	4 Stroke
Bore / Stroke [mm] :	130.0 / 157.0
Induction:	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	16.3:1
Displacement [lt]:	12.5
Electrical Sys. Voltage	24 / Negative
Battery Charger Amps.	70

Lubrication System	
Total Oil Capacity [lt]:	40.0
Oil Type :	API CH4 15W-40
Oil Cooling Method :	Water

Fuel Filter Type :			Replaceable Element		
Recommended Fuel :			Class A2 Diesel		
Fuel Consumption	n [lt] :				
	110%	100%	75%	50%	
Prime	Load	Load	Load	Load	
50Hz	90.1	81.6	63.7	44.9	

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50Hz		90.1	70.5	49.7
60Hz		102.8	82.0	58.5

92.8

73.5

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

102.8

Alternator Data	
Manufacturer :	LINZ
Model :	PRO 28LG/4
No. of Bearings :	Single
Insulation Class:	н
Winding Pitch :	2/3
Number of Wire :	6
Protection Class :	IP23
Efficiency:	93.8%
Voltage Regulation (Steady State) :	1%
Total Harmonic Content:	2.0%
Appearent power [kVA]:	420

Cooling System		50Hz	60Hz
Cooling System Capacity [It]:		45.2	45.2
Heat rejected to Water & Lube Oil	[kW]:		
	Prime	127.3	146.4
	Standby	139.9	162.2
Heat Radiation to Room [kW]:			
	Prime	34.0	47.5
	Standby	40.0	65.8
Radiator Fan Load [kW]:		12.0	20.0
Radiator Cooling Air Flow [m³/min]:		599.4	742.8
External Restrictions to:			
Cooling Airflow [Pa] :		125	125

Exhaust System		50Hz	60Hz
Max. Allowable Back Pressure [	kPa] :		
		10.0	10.0
Exhaust Gas Flow [m <sup>3</sup> /min]:			
	Prime	64.6	67.5
	Standby	72.5	73.5
Exhaust Gas Temp. $[^{\circ}C]$ :			
	Prime	630	660
	Standby	630	660
Performance		50Hz	60Hz
Engine Speed [rpm]:		1500	1800
Gross Engine Power [kW]:			
	Prime	368.4	405.5
	Standby	412.5	460.7

Air Systems		50Hz	60Hz
Air Filter Type :		Replaceabl	e Element
Combustion Air Flow [m³/min]:			
	Prime	24.3	26.9
	Standby	26.4	29.0
Max. Combustion Air Intake			
Restriction [kPa]:		6.4	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  $\operatorname{DIAMOND}$  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.

52.3

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)