

Output Ratings

Genset Model	Prime ¹	Standby ²
415V, 60Hz	115,9kVA / 92,72kW	127,3kVA / 101,84kW

Ratings are given at 0,8 power factor

Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
2150/2880	1100/1100	1210/1720	960/1270	

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Perkins 1104C-44TAG2
Number of Cylinders:	4 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	105.0 / 127.0
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	18-23 : 1
Displacement [lt] :	4.4
Electrical Sys. Voltage	12V/24V/ Negative
Battery Charger Amps.	65

Lubrication System

Total Oil Capacity [lt] :	8.0
Oil Type :	API CC/SE 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
60Hz	24.9	22.6	17.1	11.8

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

Alternator Data

Manufacturer :	Linz Electric	
Model :	PRO22S D/4	
No. of Bearings :	Single	
Insulation Class:	H	
Winding Pitch :	2/3	
Number of Wire :	12	
Protection Class :	IP23	
Efficiency:	91.1%	
Voltage Regulation (Steady State) :	1.0%	
Total Harmonic Content:	4.0%	
Apparent power [kVA]:	113	
Radiant Heat [Kw]:		
	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)

Standard Reference Conditions: Standart reference conditions 25°C Air Inlet Temp. 100m, 30% relative humidity.

Cooling System

60Hz

Cooling System Capacity [lt] :	12.6
Heat rejected to Water & Lube Oil [kW]:	
Prime	57.7
Standby	64
Heat Radiation to Room [kW] :	
Prime	8.5
Standby	9.4
Radiator Fan Load [kW] :	5.1
Radiator Cooling Air Flow [m ³ /min] :	225.6
External Restrictions to :	
Cooling Airflow [Pa] :	100

Exhaust System

60Hz

Max. Allowable Back Pressure [kPa] :	15.0
Exhaust Gas Flow [m ³ /min] :	
Prime	18.4
Standby	20.4
Exhaust Gas Temp. [°C] :	
Prime	517
Standby	574

Performance

60Hz

Engine Speed [rpm] :	1800
Gross Engine Power [kW] :	
Prime	106.8
Standby	117.5

Air Systems

60Hz

Air Filter Type :	Dry Type
Combustion Air Flow [m ³ /min] :	
Prime	7.75
Standby	7.8
Max. Combustion Air Intake	
Restriction [kPa] :	8.0

Available Options

Arken 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 ARKEN or visit www.arkengenerator.com