

Output Ratings

Genset Model	Prime ¹	Standby ²
415V, 60Hz	92.7kVA / 74,16kW	98kVA / 78,4kW

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	1000/1310	

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Perkins 1104A-44TG2
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 :	17.25:1
Displacement [lt] :	4.4
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	65

Lubrication System

Total Oil Capacity [lt] :	8.0
Oil Type :	API CG4/CH4 15W-40
Oil Cooling Method :	Water

Fuel System

Fuel Filter Type :	Replaceable Element
Recommended Fuel :	Class A2 Diesel

Fuel Consumption [lt] :

	110% Load	100% Load	75% Load	50% Load
60Hz	24.4	21.3	16.9	11.9

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

Alternator Data

Manufacturer :	Linz Electric	
Model :	PRO22S B/4	
No. of Bearings :	Single	
Insulation Class:	H	
Winding Pitch :	2/3	
Number of Wire :	12	
Protection Class :	IP23	
Efficiency:	93.1%	
Voltage Regulation (Steady State) :	1.0%	
Total Harmonic Content:	4.0%	
Apparent power [kVA]:	96	
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] :	13.0
Heat rejected to Water & Lube Oil [kW]:	
Prime	53.0
Standby	57.0
Heat Radiation to Room [kW] :	
Prime	14
Standby	15
Radiator Fan Load [kW] :	2.8
Radiator Cooling Air Flow [m ³ /min] :	111
External Restrictions to :	
Cooling Airflow [Pa] :	107

Exhaust System

60Hz

Max. Allowable Back Pressure [kPa] :	15.0
Exhaust Gas Flow [m ³ /min] :	
Prime	15.0
Standby	15.85
Exhaust Gas Temp. [°C] :	
Prime	535
Standby	560

Performance

60Hz

Engine Speed [rpm] :	1800
Gross Engine Power [kW] :	
Prime	84.5
Standby	93

Air Systems

60Hz

Air Filter Type :	Dry Type
Combustion Air Flow [m ³ /min] :	
Prime	6.2
Standby	6.5
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