

## Output Ratings

Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>
415V, 60Hz	55,9kVA / 44,72kW	61,6kVA / 49,28kW

Ratings are given at 0,8 power factor

## Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
1750/2190	1000/1000	1130/1450	780/1105	

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

## Engine Technical Data

Engine Model :	Perkins 1103A-33TG1
Number of Cylinders:	3 / 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] :	3.3
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	65

## Lubrication System

Total Oil Capacity [lt] :	8.3
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%	100%	75%	50%
	Load	Load	Load	Load

60Hz	14,3	12,9	9,9	7,1
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(Based on diesel fuel with a spec. gravity of 0,84 and complied with BS2869, Class A2)

## Alternator Data

Manufacturer :	Linz Electric	
Model :	PRO18S C/4	
No. of Bearings :	Single	
Insulation Class:	H	
Winding Pitch :	2/3	
Number of Wire :	12	
Protection Class :	IP23	
Efficiency:	89.3%	
Voltage Regulation (Steady State) :	1.0%	
Total Harmonic Content:	4.0%	
Apparent power Prime [kVA]:	59	
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)

## Cooling System

60Hz

Cooling System Capacity [lt] :	10.2
Heat rejected to Water & Lube Oil [kW]:	
Prime	31.0
Standby	34.0
Heat Radiation to Room [kW] :	
Prime	8
Standby	9
Radiator Fan Load [kW] :	1.7
Radiator Cooling Air Flow [m <sup>3</sup> /min] :	70
External Restrictions to :	
Cooling Airflow [Pa] :	137

## Exhaust System

60Hz

Max. Allowable Back Pressure [kPa] :	15.0
Exhaust Gas Flow [m <sup>3</sup> /min] :	
Prime	8.8
Standby	9.5
Exhaust Gas Temp. [ °C ] :	
Prime	510
Standby	551

## Performance

60Hz

Engine Speed [rpm] :	1800
Gross Engine Power [kW] :	
Prime	50.5
Standby	55.6

## Air Systems

60Hz

Air Filter Type :	Replaceable Element
Combustion Air Flow [m <sup>3</sup> /min] :	
Prime	3.7
Standby	3.9
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](http://www.arkengenerator.com)

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