

## Output Ratings

Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>
415V, 60Hz	170.5kVA / 136,4kW	190.2kVA / 152,16kW

Ratings are given at 0,8 power factor

## Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
2650/3440	1100/1100	1480/1950	1450/1820	

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

## Engine Technical Data

Engine Model :	Perkins ,1106A-70TAG2
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.	85

## Lubrication System

Total Oil Capacity [lt] :	16.5
Oil Type :	API CH4 or CI4
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	41.7	38.2	29.1	19.1

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

## Alternator Data

Manufacturer :	Linz Electric
Model :	PRO22M F/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	92.6%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	169.5

**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] :	21
Heat rejected to Water & Lube Oil [kW]:	
Prime	75.3
Standby	81.6
Heat Radiation to Room [kW] :	
Prime	11.3
Standby	12.3
Radiator Fan Load [kW] :	8
Radiator Cooling Air Flow [m <sup>3</sup> /min] :	282

## Exhaust System

60Hz

Max. Allowable Back Pressure [kPa] :	6.0
Exhaust Gas Flow [m <sup>3</sup> /min] :	
Prime	31.87
Standby	32.2
Exhaust Gas Temp. [ °C ] :	
Prime	407
Standby	

## Performance

60Hz

Engine Speed [rpm] :	1800
Gross Engine Power [kW] :	
Prime	155.4
Standby	171.8

## Air Systems

60Hz

Air Filter Type :	Replaceable Element
Combustion Air Flow [m <sup>3</sup> /min] :	
Prime	14.84
Standby	15.12

## 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)