

Output Ratings		
Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>
230V, 50Hz	20kVA / 16kW	22kVA / 17.6kW

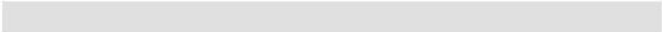
Ratings are given at 0,8 power factor

Dimension & Weight					
	Lenght [mm]	Width[mm]	Height[mm]	Weight[kg]	Fuel Tank Capacity
Without canopy	1550	900	1000	528	56
With canopy	1960	900	1380	720	
With Lube Oil & Coolant					

Engine Technical Data	
Engine Model :	Perkins 404A-22G1
Number of Cylinders:	4 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	84.0 / 100.0
Induction :	Naturally Aspirated
Cooling Method :	Water
Governor Type :	Mechanical
Compression Ratio :	23.3:1
Displacement [lt] :	2.2
Electrical Sys. Voltage	12 / Negative
Battery Charger Amps.	15

Lubrication System	
Total Oil Capacity [lt] :	10.6
Oil Type :	API CH4 15W-40

Fuel System	
Fuel Filter Type :	Replaceable Element
Recommended Fuel :	Class A2 Diesel
Fuel Consumption [lt] :	
	110%100%75%50%
Prime	LoadLoadLoadLoad
50Hz	6.15.342.9



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

Alternator Data	
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	87.1%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	34

**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		50Hz
Cooling System Capacity [lt] :		6.5
Heat rejected to Water & Lube Oil [kW]:		
	Prime	17.0
	Standby	19.6
Heat Radiation to Room [kW] :		
	Prime	5.7
	Standby	7.1
Radiator Fan Load [kW] :		0.2
Radiator Cooling Air Flow [m <sup>3</sup> /min] :		33.0
External Restrictions to :		
Cooling Airflow [Pa] :		125

Exhaust System		50Hz
Max. Allowable Back Pressure [kPa] :		
		10.2
Exhaust Gas Flow [m <sup>3</sup> /min] :		
	Prime	3.6
	Standby	3.9
Exhaust Gas Temp. [°C] :		
	Prime	445
	Standby	505

Performance		50Hz
Engine Speed [rpm] :		1500
Gross Engine Power [kW] :		
	Prime	18.4
	Standby	20.3

Air Systems		50Hz
Air Filter Type :		Replaceable Element
Combustion Air Flow [m <sup>3</sup> /min] :		
	Prime	1.5
	Standby	1.5

Max. Combustion Air Intake	
Restriction [kPa] :	3.0

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 <a href="http://www.arkengenerator.com">www.arkengenerator.com</a>	