

Output Ratings

Genset Model	Prime ¹	Standby ²
415V, 60Hz	161,9kVA / 129,52kW	176kVA / 140,8kW

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	1514/1888	-

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

Engine Technical Data

Engine Model :	Volvo TAD731GE
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	108 / 130
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Mechanic
Compression Ratio :	18:01
Displacement [lt] :	7.15
Electrical Sys. Voltage	12V/Negative
Battery Charger Amps.	55A

Lubrication System

Total Oil Capacity [lt] :	17
Oil Type :	API: CG-4, CH-4 15W-40
Oil Cooling Method :	Water

Fuel System

Fuel Filter Type :	Replaceable Element
Recommended Fuel :	ASTM-D975-No1 and 2-D

Fuel Consumption [lt] :

	110% Load	100% Load	75% Load	50% Load
60Hz	44,2	40,3	31,3	22,8

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

Alternator Data

Manufacturer :	Linz Electric
Model :	PRO22M E/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	92%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	189

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] :	24
Heat rejected to Water & Lube Oil [kW]:	
Prime	66
Standby	74
Heat Radiation to Room [kW] :	
Prime	15
Standby	16
Radiator Fan Load [kW] :	10
Radiator Cooling Air Flow [m ³ /min] :	192
External Restrictions to :	
Cooling Airflow [Pa] :	200

Exhaust System

60Hz

Max. Allowable Back Pressure [kPa] :	7
Exhaust Gas Flow [m ³ /min] :	
Prime	31,3
Standby	34,2
Exhaust Gas Temp. [°C] :	
Prime	471
Standby	480

Performance

60Hz

Engine Speed [rpm] :	1800
Gross Engine Power [kW] :	
Prime	147
Standby	163

Air Systems

60Hz

Air Filter Type :	Replaceable Element
Combustion Air Flow [m ³ /min] :	
Prime	12
Standby	13
Max. Combustion Air Intake	
Restriction [kPa] :	3.5

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