

## Output Ratings

Genset Model	Prime <sup>1</sup>	Standby <sup>2</sup>
415 V, 60 Hz	699.8kVA / 559,84kW	770.4kVA / 616,32kW

Ratings are given at 0,8 power factor

## Dimension & Weight

Length [mm]	Width [mm]	Height [mm]	Dry [kg]	Wet [kg]
3650/4670	1640/1640	2110/2500	4565/5485	-

Dry: With Lube Oil

Wet: With Lube Oil & Coolant

Without canopy/ with canopy

## Engine Technical Data

Engine Model :	Volvo TWD1643GE
Number of Cylinders:	6 / Inline
Cycle :	4 Stroke
Bore / Stroke [mm] :	144 / 165
Induction :	Turbocharged CAC
Cooling Method :	Water
Governor Type :	Electronic
Compression Ratio :	16.5:1
Displacement [lt] :	16.12
Electrical Sys. Voltage	24V/Negative
Battery Charger Amps.	80A

## Lubrication System

Total Oil Capacity [lt] :	48
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	169,0	153,3	113,9	79,8

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

## Alternator Data

Manufacturer :	Linz Electric
Model :	PRO35M E/4
No. of Bearings :	Single
Insulation Class:	H
Winding Pitch :	2/3
Number of Wire :	12
Protection Class :	IP23
Efficiency:	96.2%
Voltage Regulation (Steady State) :	1.0%
Total Harmonic Content:	4.0%
Apparent power [kVA]:	760
Radiant Heat [Kw]:	

**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] :	48
Heat rejected to Water [kW]:	
Prime	223
Standby	245
Heat Radiation to Room [kW] :	
Prime	26
Standby	29
Radiator Fan Load [kW] :	30
Radiator Cooling Air Flow [m <sup>3</sup> /min] :	967
External Restrictions to :	
Cooling Airflow [Pa] :	200

## Exhaust System

60Hz

Max. Allowable Back Pressure [kPa] :	10
Exhaust Gas Flow [m <sup>3</sup> /min] :	
Prime	119
Standby	130.1
Exhaust Gas Temp. [ °C ] :	
Prime	422
Standby	461

## Performance

60Hz

Engine Speed [rpm] :	1800
Gross Engine Power [kW] :	
Prime	615
Standby	674

## Air Systems

60Hz

Air Filter Type :	Replaceable Element
Combustion Air Flow [m <sup>3</sup> /min] :	
Prime	53
Standby	55
Max. Combustion Air Intake	
Restriction [kPa] :	5.0

## 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)