

GENERATOR SET

Power Ratings

Voltage, Frequency	PRP	ESP
400V, 50Hz cosφ = 0.8	25kVA / 20kW	28kVA / 22kW

Engine Make / Model :	Cummins - X2.5G2
Generator Make / Model :	Leroy Somer - TAL042A
Control Panel :	ComAp Inteligen AMF9
Charge Alternator [V / A] :	14V / 36A
Battery Charger [V / A] :	27.3 / 5
Battery / Capacity [V / Ah] :	1 x 60 Ah
Block Water Heater [W] :	500 W / 230V
ATS Model / Length x Width x Height * :	ATS 50A / 400X600X160

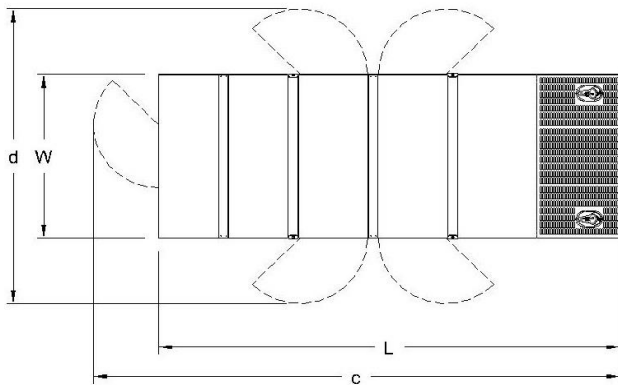
Fuel Consumption

Load	110%	100%	75%	50%
[lt / h]	6,5	6	4,8	3,5

Fuel Tank Capacity [lt - h] : 120 ltrs open skid 85 ltrs canopied

Based on diesel fuel with a specific gravity of 0.85 and conforming to TS EN590

Class A2



Diesel Engine

Manufacturer :	Cummins
Engine Model :	DC09072A 02-11
No. of Cylinders / Alignment :	3L
Bore / Stroke [mm] :	91,4 / 127
Compression Ratio :	18,5/1
Displacement [lt] :	2,5
Engine Speed [rpm] :	1500
Gross Engine Power ESP / PRP [kW] :	27 / 24,37

Generator

Manufacturer :	Leroy Somer
Alternator Model :	TAL042A
Bearings Type :	Single
Insulation Class :	H
Winding Pitch :	2/3
No. of Wires Terminal :	6
Frequency / Poles :	50Hz / 4p
Voltage (Ph-Ph / Ph-N) :	400V / 230V
Output Power (163°C / 27°C) :	27,5 kVA / 22 kW

Prime Power (PRP)

A Prime rated generator set is capable of providing power to a varying load for an unlimited number of hours per year. Ten percent overload is allowed at one in 12 hours.

Emergency Standby Power (ESP)

A Standby rated generator set is capable of providing max. power to a varying load for 200 hours per year. No overload is allowed.

Standard Reference Conditions

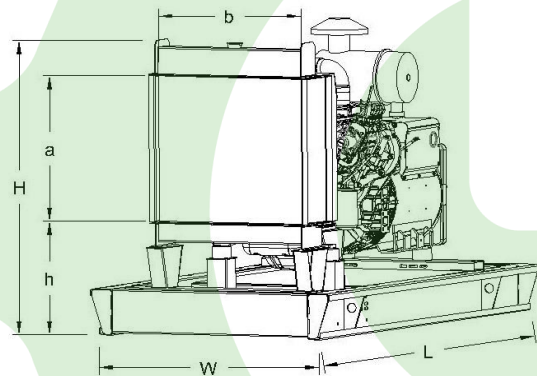
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

Dimensions & Weights

	L x W x H (mm) / c x d (mm)	Dry (kg) / Wet (kg)
Canopy :	2200 x 1000 x 1680 / TBA	1028 kg
	L x W x H (mm) / a x b x h (mm)	Dry (kg) / Wet (kg)
W/O Canopy :	1600 x 900 x 1280 / 450 x 390 x 670	675 kg

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



Air Intake System :	Natural Aspiration
Governor Type / Class 8528 :	Mechanical / A034Z136
Total Oil Capacity [lt] :	6,5
Oil Type :	API CI-4 / 15W-40
Cooling System Capacity [lt] :	5,5
Recommended Fuel :	TS EN590, Class A2 Diesel
Emissions Compliance :	No Compliance
Housing - Flywheel :	TBA

Regulation Type / Model :	AVR / R121	
Protection Class :	IP23	
Efficiency :	88,1%	
Voltage Regulation (Steady State) :	± 1.0%	
THD (Total Harmonic Distortion) :	< 2.0% w/o load/ < 5 % on load	
	15%	17 kVA
Voltage Dip.	25%	30 kVA
	30%	37 kVA

f = 50Hz, cos φ = 0,6 Motor Starting SHUNT is for given.