

GENERATOR SET

Power Ratings

Voltage, Frequency	PRP	ESP
400V, 50Hz $\cos \phi = 0.8$	80kVA / 64kW	88kVA / 70,4kW

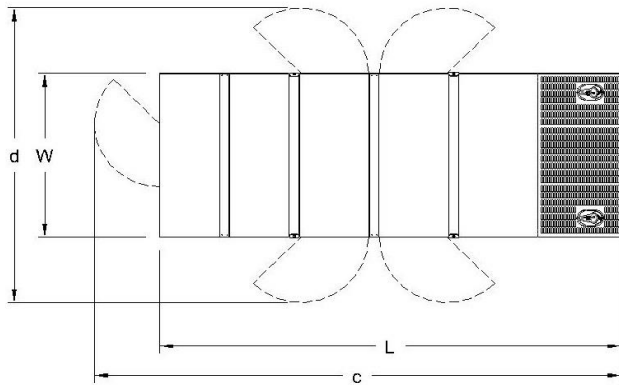
Engine Make / Model :	FPT - N45SM3
Generator Make / Model :	Leroy Somer -TAL044B
Control Panel :	ComAp Intelligen AMF9
Charge Alternator [V / A] :	14V / 90A
Battery Charger [V / A] :	12V / 5A
Battery / Capacity [V / Ah] :	1 x (12V 90 Ah)
Block Water Heater [W] :	1 X 1000 W / 230V
ATS Model / Length x Width x Depht (mm) :	160A /550 X 450 X 200

Fuel Consumption

Load	110%	100%	75%	50%
[lt / h]	21,2	19,4	15,4	9,6

Fuel Tank Capacity [lt - h] : 150 ltrs for open skid and 140 ltrs for canopied.

Based on diesel fuel with a specific gravity of 0.85 and conforming to TS EN590 Class A2



Diesel Engine

Manufacturer :	FPT
Engine Model :	N45SM3
No.of Cylinders / Alignment :	4L
Bore / Stroke [mm] :	104 / 132
Compression Ratio :	17,5:1
Displacement [lt] :	4,5
Engine Speed [rpm] :	1500
Gross Engine Power ESP / PRP [kW] :	82,3 / 74,3

Generator

Manufacturer :	Leroy Somer
Alternator Model :	TAL044B
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) :	88 kVA / 70 kW

*Arep is standard, PMG is optional

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

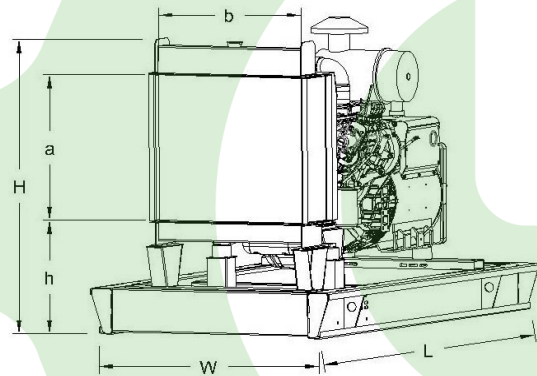
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

Dimensions & Weights

	L x W x H (mm) / c x d (mm)	Wet (kg)
Canopy :	2350 x 1100 x 1730 / TBA	1300 kVA
	L x W x H (mm) / a x b x h (mm)	Wet (kg)
W/O Canopy :	1850 x 900 x 1320 / 460 x 500 x 700	975 kg

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



Air Intake System :	Turbo Charged
Governor Type / Class 8528 :	Mechanical
Total Oil Capacity [lt] :	8,5
Oil Type :	API CI-4 / 15W-40
Cooling System Capacity [lt] :	10
Recommended Fuel :	TS EN590, Class A2 Diesel
Emissions Compliance :	N/A
Housing - Flywheel :	TBA

Regulation Type / Model :	AVR / R150
Protection Class :	IP23
Efficiency :	89,6%
Voltage Regulation (Steady State) :	$\pm 1\%$
THD (Total Harmonic Distortion) :	< 2% w/o load/ < 3,5 % on load
	15% 50 kVA
Voltage Dip.	25% 93 kVA
	30% 140 kVA

f = 50Hz, $\cos \phi = 0$ is for given.