

GENERATOR SET

Power Ratings

Voltage, Frequency	PRP	ESP
400V, 50Hz cosφ = 0.8	100kVA / 80kW	110kVA / 88kW

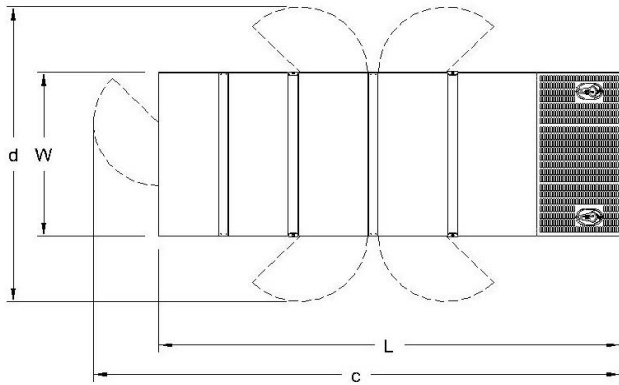
Engine Make / Model :	FPT - N45TM2A
Generator Make / Model :	Leroy Somer - TAL044D
Control Panel :	ComAp AMF 9 Lite
Charge Alternator [V / A] :	14 / 90
Battery Charger [V / A] :	12 / 5
Battery / Capacity [V / Ah] :	1 x (12V 105 Ah)
Block Water Heater [V / W] :	1 (230V / 1000 W)
ATS Model / Length x Width x Height * :	160A / 600x600x250

Fuel Consumption

Load	110%	100%	75%	50%
[lt / h]	24,4	22	16,2	11

Fuel Tank Capacity [lt] : Open skid / Canopied : 150 / 160

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



Diesel Engine

Manufacturer :	FPT
Engine Model :	N45TM2A
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] :	98 / 89,3

Generator

Manufacturer :	Leroy Somer
Alternator Model :	TAL044D
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) :	110kVA / 88kW

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

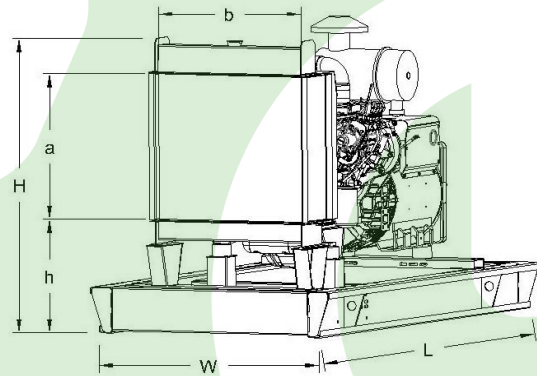
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

Dimensions & Weights

	L x W x H (mm) / c x d (mm)	Wet (kg)
Canopy :	2350X1100X1730 / TBA	1515
	L x W x H (mm) / a x b x h (mm)	Wet (kg)
W/O Canopy :	1850X900X1320 / 790 X 690 520	1170

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



Air Intake System :	Turbo Charged, After Cooled
Governor Type / Class 8528 :	Electronic
Total Oil Capacity [lt] :	12,8
Oil Type :	API CI-4, CH4/ 15W-40
Cooling System Capacity [lt] :	18,5
Recommended Fuel :	TS EN590, Class A2 Diesel
Emissions Compliance :	N/A
Housing - Flywheel :	SAE3/11,5

Regulation Type / Model :	AVR / R120
Protection Class :	IP23
Efficiency (Pf 0,8 Prime) :	90.8%
Voltage Regulation (Steady State) :	± 1.0%
THD (Total Harmonic Distortion) :	< 2% w/o load/ < 5 % on load
	15% 58kVA
Voltage Dip.	25% 115kVA
	30% 140kVA

f = 50Hz, Voltage dip is given for Locked rotor at P.F.=0.6 .