

GENERATOR SET

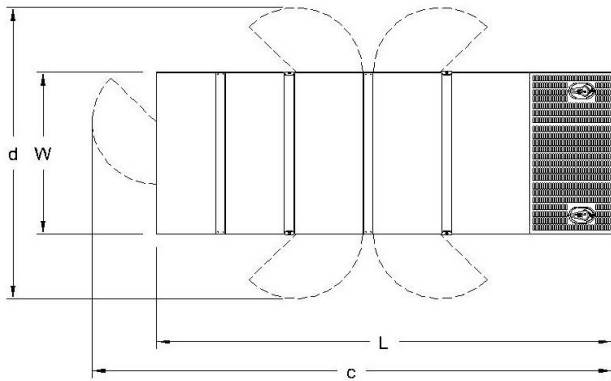
Power Ratings

Voltage, Frequency 400V, 50Hz $\cos\phi = 0.8$	PRP 25kVA / 20kW	ESP 28kVA / 22kW
Engine Make / Model :	ALR - AYD4NS25	
Generator Make / Model :	ALR - AA184F	
Control Panel :	ComAp AMF 9 Lite	
Charge Alternator [V / A] :	14.0 / 55-Negative	
Battery Charger [V / A] :	13.7 / 5	
Battery / Capacity [V / Ah] :	1 x (12 / 60)	
Block Water Heater [W] :	500	
ATS Model / Length x Width x Depth * :	50A / 550x200x450	

Fuel Consumption

Load [t / h]	110%	100%	75%	50%
		6,72		
Fuel Tank Capacity [lt] Open skid / Canopied :	120 / 85			

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



Diesel Engine

Manufacturer :	ALR
Engine Model :	AYD 4NS25
No.of Cylinders / Alignment :	4 / Inline
Bore / Stroke [mm] :	90 / 100
Compression Ratio :	18,0,1
Displacement [lt] :	2,54
Engine Speed [rpm] :	1500
Gross Engine Power ESP / PRP [kW] :	RFI / 23.1

Generator

Manufacturer :	ALR
Alternator Model :	AA184F
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) :	30kVA / 24kW

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

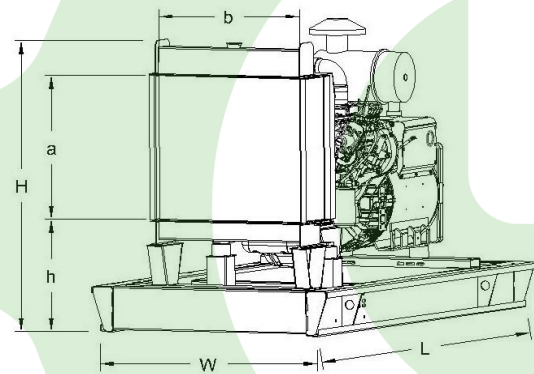
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

Dimensions & Weights

	L x W x H (mm) / c x d (mm)	Wet (kg)
Canopy :	2000x1000x1570 / RFI	970
	L x W x H (mm) / a x b x h (mm)	Wet (kg)
W/O Canopy :	1600X900X1120 / 470X520X520	745

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



Air Intake System :	Nat. Aspirated
Governor Type / Class 8528 :	Mechanic / G1
Total Oil Capacity [lt] :	12
Oil Type :	API CI-4, CH4/ 15W-40
Cooling System Capacity [lt] :	7,6
Recommended Fuel :	TS EN590, Class A2 Diesel
Emissions Compliance :	-
Housing - Flywheel :	4-7.5

Regulation Type / Model :	AVR / SX440
Protection Class :	IP23
Efficiency :	85,8%
Voltage Regulation (Steady State) :	$\pm 1.0\%$
THD (Total Harmonic Distortion) :	< 3.5%
	15% RFI kVA
Voltage Dip.	25% RFI kVA
	30% RFI kVA

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