

GENERATOR SET

Power Ratings

Voltage, Frequency	PRP	ESP
400V, 50Hz cosφ = 0.8	500kVA / 400kW	550kVA / 440kW
Engine Make / Model :	Cummins - QSX15G8	
Generator Make / Model :	Leroy Somer - TAL047C	
Control Panel :	ComAp Inteligen AMF9	
Charge Alternator [V / A] :	24V / 35A	
Battery Charger [V / A] :	24 / 5	
Battery / Capacity [V / Ah] :	2 x 150 Ah	
Block Water Heater [W] :	2000 W / 230V	
ATS Model / Length x Width x Dept * :	ATS 800A / 1000X850X320	

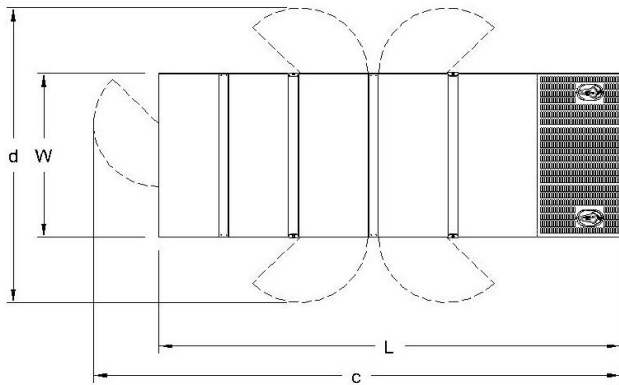
Fuel Consumption

Load	110%	100%	75%	50%
[lt / h]	123	103	78,7	54,7
Fuel Tank Capacity [lt - h] :	730 ltrs open skid 800 ltrs canopied			

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

Class A2

* Optional Item



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

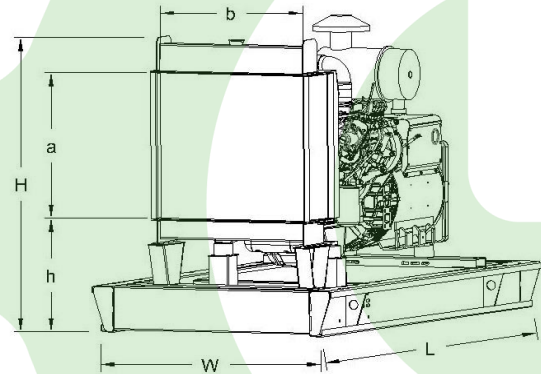
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

Dimensions & Weights

	L x W x H (mm) / c x d (mm)	Wet (kg)
Canopy :	3500 x 1500 x 2970 / TBA	3925 kg
	L x W x H (mm) / a x b x h (mm)	Wet (kg)
W/O Canopy :	3360 x 1350 x 2230 / 1210 x 1200 710	3070 kg

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



Diesel Engine

Manufacturer :	Cummins
Engine Model :	QSX15G8
No. of Cylinders / Alignment :	6L
Bore / Stroke [mm] :	137 / 169
Compression Ratio :	17,0/1
Displacement [lt] :	15
Engine Speed [rpm] :	1500
Gross Engine Power ESP / PRP [kW] :	500 / 444

Generator

Manufacturer :	Leroy Somer
Alternator Model :	TAL047C
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) :	550 kVA / 440 kW

Air Intake System : Turbo Charged, Air Cooled

Governor Type / Class 8528 : Electronic / G2

Total Oil Capacity [lt] : 91

Oil Type : API CI-4 / 15W-40

Cooling System Capacity [lt] : 42

Recommended Fuel : TS EN590, Class A2 Diesel

Emissions Compliance : N/A

Housing - Flywheel : SAE 1

Regulation Type / Model : AVR / R150

Protection Class : IP23

Efficiency (Pf 0,8 Prime): 93,5%

Voltage Regulation (Steady State) : ± 1.0%

THD (Total Harmonic Distortion) :

15% 300 kVA

Voltage Dip. 25% 580 kVA

30% 720 kVA

f = 50Hz, cos φ = 0,6, motor starting is SHUNT is for given.