

## GENERATOR SET

### Power Ratings

Voltage, Frequency	PRP	ESP
400V, 50Hz cosφ = 0.8	660kVA / 528kW	725kVA / 580kW
Engine Make / Model :	SDEC - SC27G830D2	
Generator Make / Model :	Leroy Somer / TAL047F	
Control Panel :	ComAp AMF 9 Lite	
Charge Alternator [V / A] :	24.0 / 55-Negative	
Battery Charger [V / A] :	27.3 / 5	
Battery / Capacity [V / Ah] :	2 x (12 / 180)	
Block Water Heater [W] :	2X2000 with pump	
ATS Model / Length x Width x Dept * :	1250A / 1300x500x1700	

### Fuel Consumption

Load	110%	100%	75%	50%
[lt / h]	152,7	141	106,7	74,1
Fuel Tank Capacity [lt] Open skid / Canopied :	740 / 900			

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



### Diesel Engine

Manufacturer :	SDEC
Engine Model :	SC27G830D2
No. of Cylinders / Alignment :	12 / V
Bore / Stroke [mm] :	135 / 155
Compression Ratio :	16,0 : 1
Displacement [lt] :	26,6
Engine Speed [rpm] :	1500
Gross Engine Power ESP / PRP [kW] :	610 / 565

### Generator

Manufacturer :	Leroy Somer
Alternator Model :	TAL047F
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 (27°C)	730 kVA / 584 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

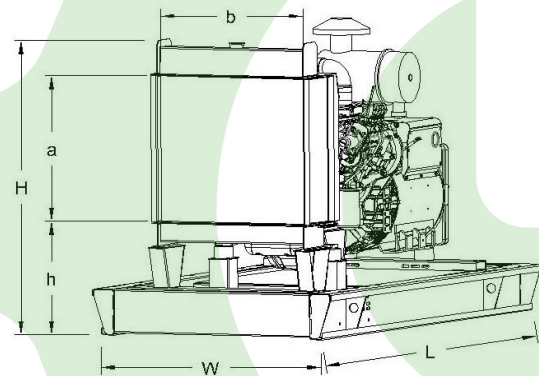
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

### Dimensions & Weights

	L x W x H (mm) / c x d (mm)	Wet (kg)
Canopy :	3900x1800x3030 / RFI	6020
	L x W x H (mm) / a x b x h (mm)	Wet (kg)
W/O Canopy :	3700x1450x2330 / 1280x1340x680	4855

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



Air Intake System :	Turbocharged & Intercooled
Governor Type / Class 8528 :	Electronic / G2
Total Oil Capacity [lt] :	65
Oil Type :	API CI-4, CH4/ 15W-40
Cooling System Capacity [lt] :	144
Recommended Fuel :	TS EN590, Class A2 Diesel
Emissions Compliance :	Stage II
Housing - Flywheel :	0-18

Regulation Type / Model :	AVR / R150	
Protection Class :	IP23	
Efficiency (Pf 0,8 Prime)	94,9%	
Voltage Regulation (Steady State) :	± 1.0%	
THD (Total Harmonic Distortion) :	< 1,5.0% w/o load/ < 5 % on load	
	15%	450 kVA
Voltage Dip.	25%	630 kVA
	30%	870 kVA

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