

## GENERATOR SET

### Power Ratings

| Voltage, Frequency       | PRP              | ESP            |
|--------------------------|------------------|----------------|
| 400V, 50Hz<br>cosφ = 0.8 | 597kVA / 477,6kW | 657kVA / 526kW |

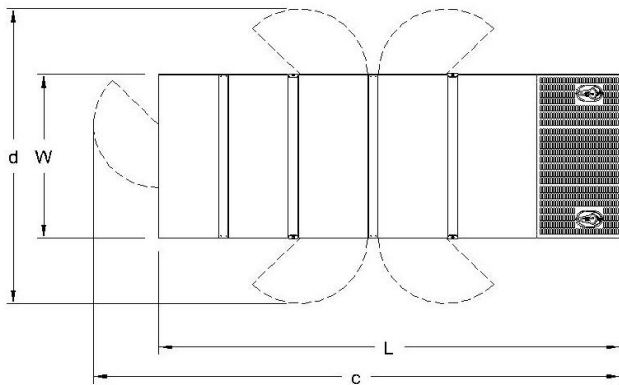
|                                        |                       |
|----------------------------------------|-----------------------|
| Engine Make / Model :                  | FPT - CR16TE1W        |
| Generator Make / Model :               | Leroy Somer - TAL047E |
| Control Panel :                        | ComAp AMF 9 Lite      |
| Charge Alternator [V / A] :            | 28 / 90               |
| Battery Charger [V / A] :              | 24 / 5                |
| Battery / Capacity [V / Ah] :          | 2 x (12 / 180)        |
| Block Water Heater [W] :               | 2000 W                |
| ATS Model / Length x Width x Depth * : | 1000A / 1000x850x320  |

### Fuel Consumption

| Load     | 110% | 100% | 75% | 50% |
|----------|------|------|-----|-----|
| [lt / h] | 130  | 116  | 93  | 59  |

Fuel Tank Capacity [lt] : Open skid / Canopied : 680 / 700

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



### Diesel Engine

|                                     |           |
|-------------------------------------|-----------|
| Manufacturer :                      | FPT       |
| Engine Model :                      | CR16TE1W  |
| No. of Cylinders / Alignment :      | 6 / L     |
| Bore / Stroke [mm] :                | 141 / 170 |
| Compression Ratio :                 | 16,5 : 1  |
| Displacement [lt] :                 | 15,9      |
| Engine Speed [rpm] :                | 1500      |
| Gross Engine Power ESP / PRP [kW] : | 570 / 518 |

### Generator

|                               |                |
|-------------------------------|----------------|
| Manufacturer :                | Leroy Somer    |
| Alternator Model :            | TAL047E        |
| 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) : | 660kVA / 528kW |

### 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

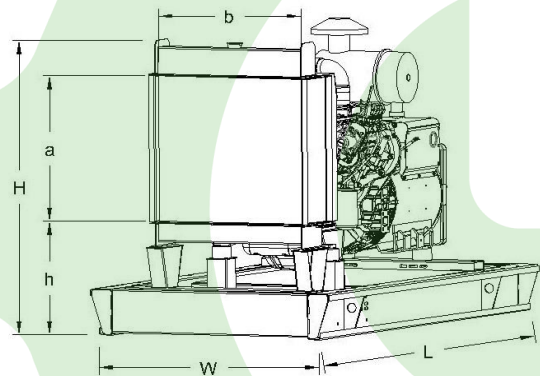
A specified values are given for 25°C ambient temperature, 100m above sea level and 30% relative humidity.

### Dimensions & Weights

|              | L x W x H (mm) / c x d (mm)        | Wet (kg) |
|--------------|------------------------------------|----------|
| Canopy :     | 3550X1400X2780 / TBA               | 4150     |
|              | L x W x H (mm) / a x b x h (mm)    | Wet (kg) |
| W/O Canopy : | 3200X1300X1950 / 1030 x 1090 x 700 | 3210     |

Dry = Without any liquid

Wet = With lube oil, coolant and fuel



|                                |                            |
|--------------------------------|----------------------------|
| Air Intake System :            | Turbocharged & Intercooled |
| Governor Type / Class 8528 :   | Electronic                 |
| Total Oil Capacity [lt] :      | 38                         |
| Oil Type :                     | API CI-4, CH4/ 15W-40      |
| Cooling System Capacity [lt] : | 52,5                       |
| Recommended Fuel :             | TS EN590, Class A2 Diesel  |
| Emissions Compliance :         | N/A                        |
| Housing - Flywheel :           | 1-14                       |

|                                     |            |
|-------------------------------------|------------|
| Regulation Type / Model :           | AVR / R150 |
| Protection Class :                  | IP23       |
| Efficiency :                        | 94.6%      |
| Voltage Regulation (Steady State) : | ± 1.0%     |
| THD (Total Harmonic Distortion) :   | < 1.5%     |
|                                     | 15% 400kVA |
| Voltage Dip.                        | 25% 750kVA |
|                                     | 30% 950kVA |

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