

# **EP725**

### Features:

· Rotate speed governor: Electronic

Excitation system: AREP

• A.V.R model: R450

· Emergency stop switch

• ATS (automatic transfer switch) receptacle

•4x12V sealed for life maintenance free battery

· Lockable battery isolator switch

 Powder coated canopy (Only for Soundproofed sets)

• 50 & radiator

· Oil pump on the engine

Steel base frame with fork holes

 Vibration isolators between the engine/alternator and base frame

· Dry type air filter

· Base fuel tank for daily running

• Drain points for fuel tank

· Operation Manual / Specifications

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Output Ratings			
Generating Set Model	Prime Power*	Standby Power**	
EP725	725kVA/580kW	798kVA/638kW	

Ratings at 0.8 power factor

#### **Dimensions and Weights**

Model	Length (L)	Width (W)	Height (H)	Dry Weight
	mm	mm	mm	kg
EP725	6058	2438	2730	11250

#### **Notes:**

#### \*Prime Power

Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;

#### \*\*Standby Power

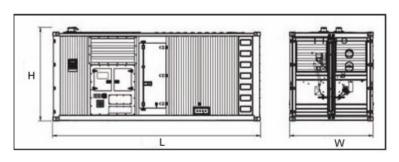
Standby duty, operation under variable load, without over load;

#### **Standard Reference Conditions**

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Ratings and Performance Data		
Engine Make & Model:	Perkins 4006-23TAG3A	
Alternator Brand:	Leroy somer	
Alternator Model:	LSA49.1M6	
Control System:	Auto Gen	
Circuit Breaker Type:	3 Pole MCCB	
Frequency & Phase:	50Hz & 3PH	
Engine Speed: RPM	1500	
Fuel Tank Capacity: litres		
EP725	1150	
Fuel Consumption: I/hr (100% Load) - Prime Power -Standby Power	172 194	







## Engine model:4006-23TAG3A

Engine Technical Data		
No. of Cylinders / Alignment:	6/Vertical, in-line	
Cycle:	4 Stroke	
Bore / Stroke: mm	160/190	
Induction:	Turbocharged	
Cooling Method:	Water cooled	
Governing Type:	Electronic	
Governing Class:	N/A	
Compression Ratio:	13.6:1	
Displacement:	22.92L	
Moment of Inertia: kg m²	4.59	
Engine Electrical System:		
- Voltage / Ground	24/Insulated return	
- Battery Charger Amps	24/60	
Weight: kg - Dry	2524	
- Wet	2663	

Cooling System			
Cooling System Capacity: 105			
Capacity without Radiator:	l N/A		
Energy to Water & Lube Oil:			
kW - F	Prime 280		
- 8	Standby 315		
Energy to Radiation: kW			
- Prime 77			
- Standby 86			
Energy to Cooling Fan: kW	26		
Radiator Cooling Airflow: m	³/min N/A		
External Restriction to Cooling Airflow: Pa	N/A		

Designed to operate in ambient conditions up to 50°C (122°F).

#### Performance

	T
Engine Speed: rpm	1500
Gross Engine Power: kW	
- Prime	654
- Standby	717
BMEP: kPa	
- Prime	2281
- Standby	2502

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Fuel Filter Type: Replaceable Element				
Recommended Fuel: Diesel Class A2				
Fuel Consumption: I/hr				
Prime 110% 100% 75% 50% Load Load				
EP725	194	172	130	90

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869,Class A2)

## Oil Filter Type: Total Oil Capacity: I

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 113.4

 Minimum: I
 90.7

 Oil Type:
 API-CG4 15W/40

 Oil Cooling Method:
 Water-cooled

Spin-On, Full Flow

#### **Exhaust System**

**Lubrication System** 

Silencer Type:	Industrial
Exhaust Outlet Size(internal):	2*152.4mm
Silencer Noise Reduction Level:	N/A
Maximum Allowable Back Pressure: kPa	3.0
Exhaust Gas Flow: m³/min - Prime - Standby	193 193
Exhaust Gas Temperature: °C - Prime - Standby	500 500

#### **Air Systems**

Air Filter Type:	Dry-paper	
Combustion Air Flow: m³/min		
- Prime	69	
- Standby	73	
Max. Air Intake Restriction:		
-clean filter	127 mm H2O	
-dirty filter	380 mm H2O	

The weights are approximate and without fuel.



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## Alternator model: LSA49.1M6

Alternator Physical Data		
Manufactured by:	Leroy somer	
Model:	LSA49.1M6	
No. of Bearings:	Single	
Insulation Class:	Н	
Winding Pitch Code:	2/3	
Wires:	6	
Ingress Protection Rating:	IP23	
Excitation System:	AREP or PMG	
AVR Model:	R450	

Alternator Performance Data:	EP725
Data Item	
Motor Starting Capability* kVA	1985
Short Circuit Ratio** %	0.43
Reactances: Per Unit Xd X'd X'd X"d	301 14.7 11.7

Overspeed: rpm	2250min <sup>-1</sup>	
Voltage Regulation: (Steady state)	±0.5%	
Wave Form NEMA = TIF:	<50	
Wave Form IEC = THF:	<2%	
Total Harmonic content LL/LN:	No load <4%-on load <4%	
Radio Interference:		
Radiant Heat: kW (Btu/min)		
EP725		

**EP725** 

**Alternator Operating Data** 

**Voltage Technical Data** 

Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
380/220V	725	580	760	608
400/230V	725	580	760	608
415/240V	725	580	760	608

# **Control System PLC-7420**

#### **FEATURES**

- Microprocessor control, with high stability and credibility
- Mains supply and generator operation monitoring.
- Indicating operation status and fault conditions.
- Multiple protections; multiple parameters display, such as pressure, temperature.
- Manual and automatic work mode selectable.
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed.
- Communication with PC via RS485 or RS232 interface, using MODBUS protocol.
- Engine ECU is available.
- Common USB cable is usable for parameter configuration.
- Multi-language is available.

