



### ALMSD 725 kVA

#### **PRIME POWER**

Means running in 70% average load in an unlimited time as a mains backup. 10% overload is permitted

STANDBY POWER

Means running in variable load in limited period of time where the mains is good. Overload is not allowed

### Generators

	Prime		Stand-by
Power (kVA)	660		725
Power kW	527		580
Model		ALMSD 725	
Engine Model		Sdec / SC27G830D2	
Fuel Type		Diesel	
Frequency		50 Hz	
Power Factor		Cos Φ = 0.8	
Rated Voltage		400/231 V	
Fuel Type		Diesel	
Dimension	Canopied		Open Skid
Length (mm)	3900		3700
Height (mm)	3030		2330
Width (mm)	1800		1450
Weight (kg)	6020		4850
Fuel Tank Capacity	900		740



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## **Diesel Generator**

# ALMSD 725 Engine Manufacturer

ModelSC27683002Engine Type4Engine Standby PowerKWmEngine Standby PowerKWmEngine PowerKWmEngine Power50Number of Oglinders/ Arrangement12VTotal DisplacementRefTotal DisplacementKMmStart StartStart StartBroes StarkmanCompression RatioInformationAppression RatioVCStort StartStart StartGoernor TypeInformationElectrical SystemStart StartColand CapacityItRequery SpeedStart StartStart StartStart StartStart StartStart StartStart StartStart StartColand CapacityItStart StartStart StartStart StartStart StartStart Start StartStart StartStart Start StartStart StartStart Start Start Start Start StartStart Start StartStart Start S	Manufacturer		Sdec
Engine Standby PowerkVm610Engine Prime PowerkVm550Number of Cylinders/ Arrangement12VTotal Displacementk26,6Type of Coolingmm135 x 155Bore x Strokemm135 x 155Compression Ratio-16.1AspirationVDC24Governor Typet65Electrical SystemVDC24Lubrication Oil Capacityt144Frequency / SpeedPiece x W150Mater HeaterPiece x AH55BatteryRa55Injection Systemm <sup>3</sup> minTBACooling Air Flowm <sup>3</sup> minTBAColing Air Flowm <sup>3</sup> min15AKahaust Gas Flowm <sup>3</sup> min15AKahaust Gas Flowm <sup>3</sup> min15AKahaust Gas FlowL/h600%100 Fuel ConsumptionL/h141%25 Fuel ConsumptionL/h166	Model		SC27G830D2
Engine Prime PowerkVm550Number of Cylinders/ Arrangement12VTotal Displacementk26,6Type of CoolingSuBore x Strokemm135 x 155Compression Ratio-16:1Aspiration-Turbocharged, IntercoolerGovernor TypeElectroial System24Lubrication Oil Capacityt65Colant Capacityt144Frequency / SpeedPiece x W50BatteryPiece x AH55Inget AlternatorA55Inget Alternatorm <sup>3</sup> /minTBAColing Air Flowm <sup>3</sup> /minTBAConbustion Air Flowm <sup>3</sup> /min50Ehatas Cult TimperatureC600Status Cult TimperatureLub101Status Cult TimperatureC600Status Cult TimperatureLub106	Engine Type		4 Stroke Diesel Engine
Number of Cylinders/ Arrangement12VTotal DisplacementIt26,6Type of CoolingSuBore x Strokemm135 x 155Compression Ratio16:1AspirationTurbocharged, IntercoolerGovernor TypeElektronicElectrical SystemVOC24Lubrication Oil CapacityIt65Colant CapacityIt144Frequency / SpeedPiece xW50BatteryPiece xAH55Injection SystemMain55Injection Systemm³/minTBAConbustion Air Flowm³/minTBAEhatas Capitym³/min161Ehatas CapityC600Stalaus FlowMain150Ehatas CapityL/h141Stalaus ConsumptionL/h106	Engine Standby Power	kWm	610
Total DisplacementIt26,6Type of CoolingSuBore x Strokemm135 x 155Compression Ratio-16:1Aspiration-Turbocharged, IntercoolerGovernor Type-ElektronicElectrical SystemVDC24Lubrication Oil CapacityIt65Coolant CapacityIt50 - 1500Water HeaterPiece x W50 - 1500BatteryPiece x AH2 x 180Coling Air Flown³/minTBACooling Air Flowm³/minTBAConbustion Air Flowc600Exhaust Case Flown³/min141Exhaust Outlet TemperatureC600%100 Fuel ConsumptionL/h141	Engine Prime Power	kWm	550
Type of CoolingSuBore x Strokemm135 x 155Compression Ratio-16.1AspirationVocTurbocharged, IntercoolerGovernor TypeElectronical24Electrical SystemVDC24Lubrication Dil CapacityIt65Coolant CapacityIt144Frequency / SpeedHere xW50-1500Water HeaterPiece x M50-1500BatteryPiece x AH55Coling Air Flowm³/minTBAConbustion Air Flowm³/minTBAConbustion Air Flowm³/min50-1500Exhaust Gas Flowm³/min50-1500Khaust Outlet TemperatureC600Stip LionsumptionL/h141Stip LionsumptionL/h160	Number of Cylinders/ Arrangement		12V
Bore x Strokemm135 x 155Bore x Strokei.i.Compression Ratioi.i.AspirationTurbocharged, IntercoolerGovernor TypeElektronicElectrical SystemVDCLubrication Oil CapacityItCoolant CapacityItFrequency / SpeedHz - rpmBatteryPiece x WColant GaystemPiece x HColant GaystemSInjection SystemMainCoolant Flowm³/minConduction Air Flowm³/minStatust Gas Flowm³/minKaust Gas FlowCKaust Gas FlowL/hKito Fuel ConsumptionL/hKaust Outlet TemperatureL/hKaust GusmptionInferctoreStatust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionL/hKaust ConsumptionKaust ConsumptionKaust ConsumptionL/hKaust ConsumptionKaust ConsumptionKaust ConsumptionL/hKaust ConsumptionKaust Consumption <td>Total Displacement</td> <td>lt</td> <td>26,6</td>	Total Displacement	lt	26,6
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AspirationTurbocharged, IntercoolerGovernor TypeIElektronicElectrical SystemVDC24Lubrication Oil CapacityIt65Coolant CapacityIt144Frequency / SpeedHz - rpm50 - 1500Water HeaterPiece x WTBABatteryPiece x AH2 x 180Charge AlternatorA55Cooling Air Flowm³/minTBACooling Air Flowm³/minTBAExhaust Gas Flowm³/min99,5Exhaust Outlet TemperatureC600%100 Fuel ConsumptionL/h141%75 Fuel ConsumptionL/h106	Bore x Stroke	mm	135 x 155
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Coolant CapacityIt144Frequency / SpeedHz - rpm50 - 1500Water HeaterPiece x WTBABatteryPiece x AH2 x 180Charge AlternatorA55Injection System-DirectCooling Air Flowm³/minTBACombustion Air Flowm³/minTBAExhaust Gas FlowC600Know Liet TemperatureL/h141%75 Fuel ConsumptionL/h106	Electrical System	VDC	24
Frequency / SpeedHz - rpm50 - 1500Water HeaterPiece x WTBABatteryPiece x AH2 x 180Charge AlternatorA55Injection SystemToretCooling Air Flowm³/minTBACombustion Air Flowm³/minTBAExhaust Gas FlowC600Khaust Outlet TemperatureC600%100 Fuel ConsumptionL/h106	Lubrication Oil Capacity	lt	65
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BatteryPiece x AH2 x 180Charge AlternatorA55Injection System-DirectCooling Air Flowm³/minTBACombustion Air Flowm³/minTBAExhaust Gas Flowm³/min99,5Exhaust Outlet TemperatureC600%100 Fuel ConsumptionL/h141%75 Fuel ConsumptionL/h106	Frequency / Speed	Hz - rpm	50 - 1500
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Combustion Air Flowm³/minTBAExhaust Gas Flowm³/min99,5Exhaust Outlet TemperatureC600%100 Fuel ConsumptionL/h141%75 Fuel ConsumptionL/h106	Injection System		Direct
Exhaust Gas Flowm³/min99,5Exhaust Outlet TemperatureC600%100 Fuel ConsumptionL/h141%75 Fuel ConsumptionL/h106	Cooling Air Flow	m³/min	ТВА
Exhaust Outlet TemperatureC600%100 Fuel ConsumptionL/h141%75 Fuel ConsumptionL/h106	Combustion Air Flow	m³/min	ТВА
%100 Fuel ConsumptionL/h141%75 Fuel ConsumptionL/h106	Exhaust Gas Flow	m³/min	99,5
%75 Fuel Consumption L/h 106	Exhaust Outlet Temperature	с	600
	%100 Fuel Consumption	L/h	141
%50 Fuel Consumption L/h 74	%75 Fuel Consumption	L/h	106
	%50 Fuel Consumption	L/h	74

# Alternator

Phase / Pole Number		3/4+
Excitation Sytem		Self Excited, Brushless
Voltage Regulator		A.V.R. (Automatic)
Voltage Regulation		±%1
Insulation Class		н
Protection Class		IP23
Connection Type		Star
Frequency	Hz	50
Power Factor		0.8
Total Harmonic Distortion		< % 3.5
Output Voltage	VDC	231/400



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# ALMSD 725 General Information

### STANDARD FEATURES

#### Engine

Low fuel consumption and high performance latest technology diesel engines, electronic or mechanical governor, water-cooled radiator system, replaceable oil, fuel, air filters.

#### Alternator

With its robust and compact structure, steel body, maintenance-free single bearing system, brushless, self-excited system and electronic type AVR, alternators suitable for the special needs of different applications are used.

#### **Gen-Set Cabinet**

Modular cabinets are used in accordance with 2000/14/EC directives, covered with sound and heat insulation flame-resistant sponge, corrosion and rust resistant paint, locks and hinges, large lockable doors on both sides for easy service and maintenance. Exhaust and silencer insulated according to engine suitability. Small and medium power fuel tank is designed as under-

chassis. Lifting ears on chassis. Vibration prevention wedges are used under the chassis.

#### Standard Accessories;

- Industrial silencer and stainless steel compensator
- Maintenance-free lead-acid starter battery, cable and stand
- Block water heater with thermostat
- Automatic control module
- SMPS battery charger
- Relays and fuses
- Emergency stop button

#### **Optional Features**

- Remote radiator
- Water level sensor
- Fuel level sensor
- Winding dehumidifier heater
- Winding and bearing temperature sensors
- MCCB
- PMG/AREP

#### Other Accessories ;

- Electronic/Manual oil drain pump
- Critical type silencer
- Trailer
- Main fuel tank stainless and insulated
- Automatic transfer panel
- Spring loaded seismic isolator
- Oil and fuel tank heater
- Maintenance tools and kits



#### Alimar ALM-929 Automatic Control Module

- AMF function
- ATS function
- Remote start function
- Manual start function
- Engine control function
- Suitable for remote monitoring

#### Measurements

- Mains and gen. FN FF voltages
- Mains and generator frequency
- Mains and genset phase currents
- Mains and generator neutral currents
- Grid and generator phase and total, kW,kVA,kVAr

#### Connection

- 3 phase 4 wire, stars & delta
- 3 phase 3 wire, 2 current transformer
- 2 phase 3 wire
- 1 phase 2 wire

#### Communication

- RS232 485 connection with cable
- J1939-CANBUS
- GSM / GPRS connection
- Ethernet connection
- Modbus RTU

#### Quality Standardsı;

- ISO 9001
- ISO 14001
- ISO 8528
- ISO 3046
- IEC EN 60034
- CE Certificate - OHSAS 18001
- VDE 0530
- EN ISO 12100 - SZUTEST
- 2000/14/EC

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