ALMDO 590



Diesel Generating Sets



Image shown may not reflect actual gen-set

Prime Power

Refers to the main power supply, working under 70% average load for unlimited time. 10% overloading is allowed.

Stand-by PowerRefers to the back up power supplied to the varying load for a limited time. Overloading is not allowed.

Generator

			Prime		Stand-by
Power (kVA)	kVA		540		590
Power kW	kW		432		472
Generator Model:	ALMDO 590				
Engine Manufacturer Model:	DOOSAN / DP158LD				
Fuel Type:	Diesel				
Frequency:	50 Hz				
Power Factor:	$Cos \Phi = 0.8$				
Voltage:	400/231 V				
Dimensions			With Ca	nopy	Open Skid
Length		mm	3350		3150
Height		mm	2980		2050
Width		mm	1600		1450
Weight		kg	5250		4400
Fuel Tank Capacity		lt	800		700
Dimensions Length Height Width Weight		mm mm kg	3350 2980 1600 5250		3150 2050 1450 4400

H: External K: Container TBA: To be added

Alimar reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice



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iesel Generating Sets

Engine

Engine Manufacturer:		DOOSAN
Engine Model:		DP158LD
Engine Type:		4 Stroke Diesel Engine
Engine Stand-by Power:	kWm	510
Engine Prime Power:	kWm	464
Cylinder Arrangement:		8V
Displacement:	lt	14,618
Cooling System:		Water Cooling
Bore x Stroke:	mm	128 x 142
Compression Ratio:		15:1
Aspiration:		Turbocharged, Intercooler
Governor Type:		Elektronic
Electrical System:	VDC	24
Lubricant Oil Capacity:	lt	22
Coolant Capacity:	Lt	79
Frequency Lt:	Hz - rpm	50 - 1500
Jacket Water Heater:	Piece x W	2 x 2000
Battery:	Piece x AH	2 x 180
Charge Alternator Current:	Α	45
Injection System:		Direct
Cooling Air Flow:	m³/min	700
Combustion Air Flow:	m³/min	33,1
Exhaust Gas Flow:	m³/min	98
Exhaust Gas Temperature:	°C	561
Fuel Consumption Under 100% Load:	lt/h	115,1
Fuel Consumption Under 75% Load:	lt/h	83,4
Fuel Consumption Under 50% Load:	lt/h	55,1

Alternator

Phase / Pole Number:		3/4+
Excitation System:		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:		$Cos \Phi = 0.8$
Total Harmonic Distortion (No Load):		< % 3.5
Output Voltage:	VAC	231/400

TBA: To be added



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Control Panel



ALM929



AMF9

Alimar ALM-929 Automatic Control Module

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

Mains and Genset LL- LN Voltages

Mains and generator frequency
Mains and genset phase currents
Mains and generator neutral currents
Grid and generator phase and total, kW, kVA,kVAr
Power factor, engine speed, battery voltage and more

Connections

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

Protection Functions

- Overvoltage
- Low voltage
- Voltage asymmetry and phase sequence
- High frequency
- Low frequency
- Short-circuit current
- Overcurrent
- Power factor
- Coolant temperature
- · Low oil pressure

Auto Panel Features

- Automatic generator, grid control and fault monitoring
- Easy control with a user-friendly interface from the panel screen
- Remote operation with optional communication cards
- Manual programming with password-protected service interface
- Manual control of generator and transfer panel with buttons on the front panel
- Front panel protection class IP65
- With an operating temperature of -20 C to +70 C and a storage temperature of -40 C to +80 C



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Standard Features

Engine

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

Alternator

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

Gen-Set Canopy

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 underchassis. 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 Jacket water heater with thermostat

Automatic control module

SMPS battery charger

Relays and fuses

Emergency stop button

Optionel Features

Remote radiator

Coolant level sensor

Fuel level sensor

Winding dehumidifier heater

Winding and bearing temperature sensors

МССВ

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

Cabin: Alimar Generator cabins are user-friendly. It provides easy maintenance and repair. Cabin monitoring the control module from outside and emergency stop button can be accessed. The inner surface of the cabinets is sound and high intensity flame that provides heat insulation does not walk covered with sponge. Cabin paint is resistant to corrosion and rust. It is resistant to. Muffler hardware on certain models hidden inside the cabin.



