

APD 1375 J

Engine : Aksa
Alternator : Aksa
Control System : P 732 control system



This generator set is available with CE certification.

2000/14/EC

Enclosed product is tested EU noise legislation 2000/14/EC

DIESEL ENGINE SPECIFICATIONS

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	1375,00	1100,00	1250,00	1000,00	1804,00

Standby Rating (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

Prime Rating (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

Standart Specifications

- Heavy duty, water cooled diesel engine
- 46/50 °C ambient rated radiator with mechanical fan
- Protective grille for fan and rotating parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine jacket cooling heater
- Steel base frame and anti-vibration isolators
- Spare Fuel Tank
- Flexible fuel connection hoses
- Two bearing, class H alternator
- Industrial exhaust silencer and steel belows supplied separately
- Static battery charger
- Manual for use and installation

OPTIONAL EQUIPMENTS

ENGINE

- Remote Radiator Cooling
- Fuel-Water Separator Filter

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Earth fault, single set
- Main Fuel Tank

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Electrical oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers

TRANSFER SWITCH

- Four Pole Contactor

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DIESEL ENGINE SPECIFICATIONS

Manufacturer		Aksa		
Model		G12V190ZL1		
No. of Cylinders and Build		12-cylinder, V - Type		
Aspiration and Cooling		Turbo Charged and Search Refrigerated		
Total Displacement	L	71,45		
Bore and Stroke	mm	190 x 210		
Compression Ratio		14,0:1		
Rated Speed (rpm)	rpm	1500		
Governor		Electronic		
Oil Capacity	L	200,00		
Coolant Capacity	L	500,00		
Intake Air Flow	m ³ /min.	113,00		
Radiator Cooling Air	m ³ /min.	1830		
Exhaust Gas Flow	m ³ /min.	253,00		
Exhaust Gas Temperatures	° C	600		
Start System		24 V d.c.		
Fuel Consumption	Load	%100	%75	%50
	L/h	258,00	195,00	130,00

ALTERNATOR SPECIFICATIONS

Make		Aksa
Frequency	Hz	50
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		H
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

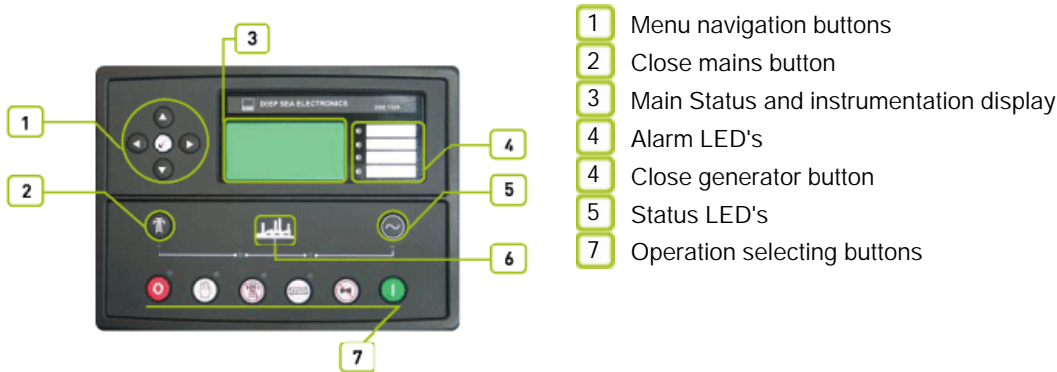
DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity (L)
	kg.	mm.	mm.	mm.	L
APD 1375 J	11500	5750	2070	2700	2000
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity (L)
	kg.	mm.	mm.	mm.	L
SC 20	16700	6060	2440	2591	

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1 P 732 control system - Control System



- 1 Menu navigation buttons
- 2 Close mains button
- 3 Main Status and instrumentation display
- 4 Alarm LED's
- 4 Close generator button
- 5 Status LED's
- 7 Operation selecting buttons

2 Devices

DSE, model 7320 Auto Mains Failure control module
Static battery charger 5A, 220/240 volt
Emergency stop push button and fuses for control circuits

3 Construction and Finish

Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface
Polyester composite powder topcoat forms high gloss and extremely durable finish
Lockable hinged panel door provides for easy component access

4 Installation

Control panel is mounted generating set baseframe on robust steel stand or power module.
Located at side of generating set with properly panel visibility.

5 Generating Set Control Unit

HAY'8G9+' &\$ V&bfca cXi Y'jg'U'ghUbxUfX UXX]hcb hc'ci f[YbyfUhf'gYhg Zca '8) \$_J 5'i dk UfXg'UbX'ih\Uj Y VYYb XYg] bYX'hc'ghUfUbx'ghcd'X]YgY' UbX[Ug[YbyfUhf] 'gYhg'U'Uh]bWl XY'Y'Vfcb]WUbx' bcb Y'Y'Vfcb]WYb[]bYg''HAY 8G9+' &\$]bWl XYg'AY UXX]hcbU' WdUV]]mcZVY]b['UV'Y hc'a cb]hc'f'U'a U]bg'fi h]]mt'gi dd'mUbx]g'AYfYzcfY gi]hUV'Y Zcf'V&bfca]b['U'ghUbxVm[YbyfUhf] 'gYhg]b V&b' bVfcb'k]h' Ub'Ui hc'a U]WfUbgZf'gk]hV' HAY'8G9+' &\$ U'gc]bX]WYg'cdYfUhfcbU' ghU' g'UbX'Zji 'hV&bX]hcbgz'Ui hc'a U]W' mig'i h]b['Xck b'AY [YbyfUhf] 'gYhUbx']bX]WYh]b[Zji 'hg'Vma YUbg'cZ]hg '@7 8'X]gd'Umcb'AY ZfcbhdUbY''

Standard Specifications

- Microprocessor controlled
- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communications via RS232, RS485 and ethernet and SMS messaging
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler

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Instruments

- ENGINE
- Engine speed
- Oil pressure
- Coolant temperature
- Run time
- Battery volts
- Engine maintenance due
- GENERATOR
- Voltage (L-L, L-N)
- Current (L1-L2-L3)
- Frequency
- Earth current
- kW
- Pf
- kVAr
- kWh, kVAh, kVArh
- Phase sequence
- MAINS
- Voltage (L-L, L-N)
- Frequency

Protection Circuits

- WARNING
- Charge failure
- Battery under voltage
- Fail to stop
- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- PRE-ALARMS
- Low oil pressure
- High engine temperature
- Low engine temperature
- Over /Under speed
- Under/over generator frequency
- Under/over generator voltage
- ECU warning
- SHUT DOWNS
- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Low coolant level
- Over /Under speed
- Under/over generator frequency
- Under/over generator voltage
- Oil pressure sensor open
- Phase rotation
- ELECTRICAL TRIP
- Earth fault
- kW over load
- Generator over current
- Negative phase sequence

Options

- High oil temperature shut down
- Low fuel level shut down
- Low fuel level alarm
- High fuel level alarm
- EXPANSION MODULES
- Editional LED module (2548)
- Expension relay module (2157)
- Expansion input module (2130)

Standards

- Electrical Safety / EMC compatibility
- BS EN 60950 Electrical business equipment
- BS EN 61000-6-2 EMC immunity standard
- BS EN 61000-6-4 EMC emission standard

Static Battery Charger

6UHf mVUf [Yf]g'a Ubi ZUM fYX'k Jh'gk JhX]b[!a cXY'UbX'GA 8 fVWbc'c[mUbX'ih\Ug\[\ \ YZZV]bVWf
 6UHf mVUf [Yf a cXY'gfci hdi hJ !=VUfUVWf]gh]W]g] YfmVcgy'hc'gei UfY'UbX'ci hdi h]g) Ua dYfz&('j c'h87""-bdi h% , !
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 & (\$) VUf [Yf \Ug\[\ \ YZZV]bVWf]cb["ZYz`ck'Z]i fY'fUfYz'[\ \hk Y][\hUbX`ck \YUhfUX]UfYX']b UVMcfXUbW'k Jh']bYUf
 U'fYfbUf]j Yg"
 H\Y VUf [Yf]g ZHfX'k Jh' U'dfchVW]cb X]cXY'UMf'cggh'Y'ci hdi H'7'Uf [Y'Z]`ci hdi h]g'Uj U]UV'Y""7 cbbYVWUf [Y'Z]`fY'Um
 Vc]`VYfY'YYb'dcg]h]j Y'ci hdi hUbX'7: `ci hdi H'

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SC 20 - Canopy



Introduction

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet even the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our sound insulated containers provide ease of access for servicing and general maintenance permitting on-site. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Standart Specifications

Robustly constructed walk in enclosure designed provide the necessary weather protection, sound attenuation and ventilation for the generator and switchgear.

Ribbed aluminium sheet internal floor

Ceiling mounted fluorescent light fittings

RAL 9010 white painted finish

Corner fittings to ISO 1161, providing four point lifting capability for full wet weight

Personel access doors and internal panic release button on one of door.

Exhaust silencer is horizontally mounted on top of enclosure roof and available dependant on size of generators and options selected

Protective grille for fan, rotating parts and hot parts

Removable enclosure roof

Steel ladder for roof

Fuel tank complete with retention bund, contents gauge, vent and manual fuel fill point

Power cable outlet on lower section

Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

Width	mm.	2440
Lenght	mm.	6060
Height	mm.	2591