

AC 500

Engine : Cummins
 Alternator : Mecc Alte
 Control System : P 732 control system



ISO8528

This generator set has been designed to meet ISO 8528 regulation.

SZUTEST

This generator set is manufactured in facilities certified to ISO 9001.



This generator set is available with CE certification.

2000/14/EC

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

3 Phase Ratings, 50 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	500,00	400,00	455,00	364,00	656,00

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.

STANDARD SPECIFICATIONS

- Water cooled, Diesel engine
- 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
- Base frame design incorporates an integral fuel tank and anti-vibration isolators
- Flexible fuel connection hoses
- Single 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
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- Main line circuit breaker

CONTROL SYSTEM

- Automatic synchronising and power control system (multi gen-set Parallel)
- Parallel system with mains.
- Remote annunciator panel
- Remote relay output
- Earth fault, single set
- Charge Ammeter

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
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Main Fuel Tank

TRANSFER SWITCH

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

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● DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins		
Model		QSX 15 G6		
No. of Cylinders and Build		6 Cylinder, In Line		
Aspiration and Cooling		Turbo Charged and After Cooled		
Maximum Standby Power		1500 rpm		
		459 kW[615HP]		
Total Displacement	L	15,00		
Bore and Stroke	mm	137 x 169		
Compression Ratio		17,0:1		
Rated Speed (rpm)	rpm	1500		
Governor		Electronic		
Oil Capacity	L	91,00		
Coolant Capacity	L	94,00		
Intake Air Flow	m ³ /min.	33,00		
Radiator Cooling Air	m ³ /min.	690		
Exhaust Gas Flow	m ³ /min.	83,00		
Exhaust Gas Temperatures	° C	515		
Start System		24 V d.c.		
Fuel Consumption	Load	%100	%75	%50
	L/h	95,90	74,30	51,30

● ALTERNATOR SPECIFICATIONS

Make		Mecc Alte
Model		ECP 40-3S
Frequency	Hz	50
Power	kVA	500
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	721
Insulation Class		H
Temperatur		H
Stator		2 / 3 steps
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

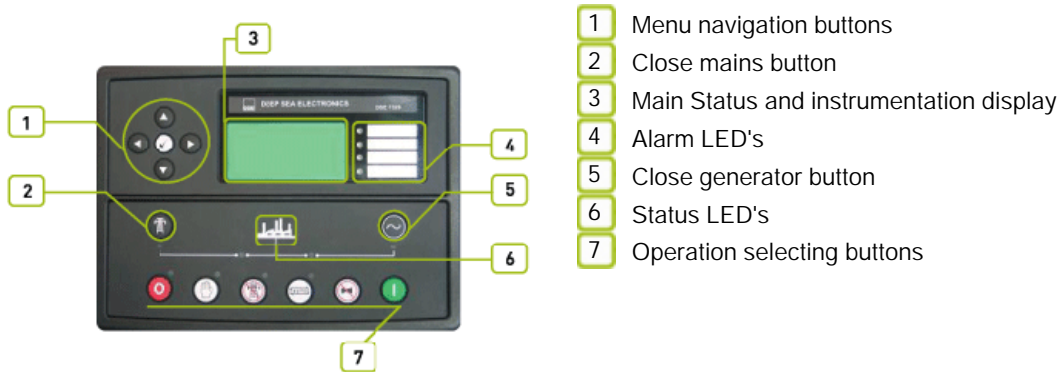
● DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AC 500	4150	3560	1300	1970	660
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 80	5250	4900	1510	2500	850

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1 P 732 control system - Control System



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'ghUbxUX' UXX]hcb hc'ci f' [YbYfUhf'gYhg Zca' &) \$_J 5'i dk UfXg'UbX'ih\Uj Y VYYb XYg] bYX'hc' ghUfhUbX' ghd'X]YgY' UbX[Ug [YbYfUhb ['gYhg' h.Uh]bWl XY'Y'Vfcb]WUbX' bcb Y'Y'Vfcb]WYb ['bYg' HAY' 8G9+' &\$ 'bWl XYg' h.Y' UXX]hcbU' WdUV]]mcZVY]b ['UV'Y' hc' a cb]hc'f' U'a U]bg' fi h]]mt' gi dd'miUbX']g' h.Y'fY'ZcfY gi]hUV'Y' Zcf' V&bfca']b ['U'ghUbxVm [YbYfUhb ['gYh]b' V&b' bVfcb' k]h' Ub'Ui' hca U]h'VfUbgZf' gk]h'V' HAY' 8G9+' &\$ 'U'gc]bX]W]hY'g'cdYfU]hcbU' ghU' g'UbX'Z]i' h'V&bX]hcbgz'Ui' hca U]h'W' mig'i h]b ['Xck b' h.Y' [YbYfUhb ['gYhUbX']bX]W]h]b [Z]i' hg'Vma YUbg'cZ]hg' @7 8' X]gd'Umcb h.Y' ZfcbhidUbY''

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

6UHfVmVUf[Yf]g'a Ubi ZUM fYX'k Jh'gk JhV]b[!a cXY'UbX'GA 8 fVWbc'c[mUbX'ih\Ug\[\ \ YZZV]bVWf
 6UHfVmVUf[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% , !
 &*\$'j c'h57""'&(\$) \Ug'z `mci hdi hg\chVfVW]hdfchVW]cb UbX'ihVWb'VY i gYX'Ug'U'W ffYbhgci fVW"
 &(\$) VUf[Yf\Ug\[\ \ YZZV]bVWf]cb[``]ZY'`ck 'Z]i fY'fUfYz'[\ hnk Y][\hUbX'`ck \YUhfUX]UfYX']b UVW'fXUbW' k]h' ``]bYUf
 U'fYfbU'h] Yg"
 H\Y VUf[Yf]g'Z]hYX'k]h' U'dfchVW]cb X]cXY'UVW'cggh'Y'ci hdi H'7'Uf[Y'Z]`ci hdi h]g'Uj U]UV'Y""7 cbbYVWVUf[Y'Z]`fY'Um
 Vc']VY'hk YYb'dcg]h] Y'ci hdi hUbX'7: `ci hdi H'

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AK 80 - Canopy



- 1 Steel structures
- 2 Emergency stop push button
- 3 Control panel is right side of the set.
- 4 Corrosion-resistant locks and hinges
- 5 Sump drains valves
- 6 Exhaust system in the canopy
- 7 Lockable, large doors o each side
- 8 Sound proof foam metarial
- 9 Base frame -tank
- 10 Lifting Points

Introduction

Sound-attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies (300 - 1100kVA) provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Standard Specifications

- Compact footprint, low profile design.
- Enclosure, generator set, exhaust system and fuel tank are pre-ssembled, pre-integrated and shipped as one package
- Body made from steel components treated with polyester powder coating
- Fire retardant foam insulation
- Easy access to all service points
- Exhaust system inside canopy
- Large doors on each side
- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on enclosure exterior
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors.
- Lifting points on the top of canopy and base frame
- Customer options available to meet your applications needs.
- Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been aproved by the notified body Szutest

Width	mm.	1510
Lenght	mm.	4900
Height	mm.	2500
Fuel Tank Capacity		850