





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 according to EU noise legislation 2000/14/EC

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
480/277		1285,00		1134,00	1705,00
380/220		1274,00		1126,00	2139,00
208/120					

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance Standby Rating (ESP):

with ISO 8528. Overload is not allowed.

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. Prime Rating (PRP):

Heavy duty, water cooled diesel engine Radiator with mechanical fan Protective grille for rotating and hot parts Electric starter and charge alternator
Starting battery (with lead acid) including rack and cables
Engine coolant heater Steel base frame and anti-vibration isolators Spare external fuel tank (open set) Flexible fuel connection hoses Single bearing, class H alternator Industrial exhaust silencer and steel bellows supplied separately Static battery charger Manual for application and installation



#### ENGINE

- Remote Radiator Cooling
- Fuel-Water Seperator 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 )
   Paralel system with mains.
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- 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
- Trailer
  Tool kit for maintenance
  Supplied with oil and coolant 30 °C
  Main Fuel Tank
  Automatic transfer switch

#### TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Three or four pole motor operated circuit breaker

# • DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins			تولید کننده
Model		KTA 50-G3			مدل
No. of Cylinders and Build		16-cylinder, V	/ - Type		تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Charge	ed and A	After Cooled	سیستم تنفس و خنک کاری
Maximum Standby Power		1800 rpm 1380,00 kw [1850,00HF			توان Standby
Total Displacement	L	50,300			جابه جایی کل
Bore and Stroke	mm	159 X 159			قطر سیلندر و کورس پیستون
Compression Ratio		13,9:1			نسبت تراكم
Rated Speed (rpm)	rpm	عت مجاز 1800			سرعت مجاز
Governor		ونر			گاورنر
Oil Capacity	L	رفیت روغن			
Coolant Capacity	L	لرفیت خنک کننده 415,00			ظرفیت خنک کننده
Intake Air Flow	m³ /min.	تریان هوای مصرفی 110,50			
Exhaust Gas Flow	m³ /min.	ریان گاز خروجی از اگزوز 258,00			
Exhaust Gas Temperature	° C	ای گاز خروجی از اگزوز 475,00			دمای گاز خروجی از اگزوز
Start System		24 V d.c.			استارتر
Fuel Concumption	Load	%100 %	75	%50	مصرف سوخت
Fuel Consumption	L/h	291,00 22	22,00	157,00	سفرف سوحت

# • ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Model		PI 734 B	مدل
Frequency	Hz	60	فركانس
Power	kw	1352,00	توان
Design		Brushless, 4 poles	طراحي
Cos Phi		0,80	كسينوس في
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	2032,00	جريان
Insulation Class		Н	کلاس عایق بندی
Temperature		Н	دما
Stator		2 / 3 steps	استاتور
Rotor		Single Bearing System, Flexible Disc	روتور
Excitation System		Electronic ( AVR )	سيستم تحريك

# • DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AC 1285-6	10000,00	4935,00	2100,00	2500,00	2000,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 98	14350	9000	2270	2550/3210	1900

# P 732 control system - Control System



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

## Devices

DSE, model 7320 Auto Mains Failure control module Static battery charger Emergency stop push button and fuses for control circuits

### Construction and Finish

Comonents 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

#### 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.

# Generating Set Control Unit

The DSE 7320 conrol module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel andgas generating sets that include electronic and non electronic engines. The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch. The DSE7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

## 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

Engine block heater control.

Controls; stop, manuel, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

### 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

## 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)

## Protection Circuits

WARNING Charge failure Battery under voltage Fail to stop Low fuel level (opt.) kW over load Negative phase sequence Loss of speed signal 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

## 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

Battery charger is manufactured with switching-mode and SMD technology and it has high efficincy.

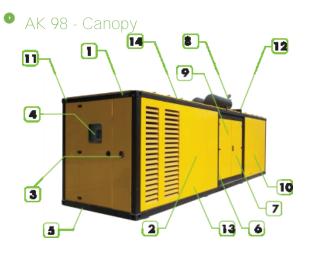
Battery charger models' output V-I characteristic is very close to square 2405 has fully output shot circuit protection and it can be used as a current source.

2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives.

The charger is fitted with a protection diode across the output. Charge fail output is available. Connect charge fail relay coil between positive output and CF output.

Input: 196-264V.

Output: 27,6V 5A or 13,8V 5A.



1 Steel structure made from steel sheet and steel profiles.

2 canopy and panels made from powder coated sheet steel.

3 Emergency stop push button.

Control panel is mounted on the baseframe . Located at the back of the

5 @abestouriocations are under of the canopy.

6 Corrosion-resistant locks and hinges.

7 oil could be drained via valve and a hose

8 Exhaust system on the canopy.

9 special large access doors (marine type) for easy maintanance

10 Fuel tank is at front of the canopy ,easy access to the fuel tank via

lockable door similar to ISO container, located on each top corner of

12 the capony the canopy provides easy accsess to radiator cap.

13 sound proofing materials

14 Integrated ladder built in to side of the canopy allows access to the top of the canopy.

Introduction

Sound-attenuated and weather protective enclosures for generating sets from abyaran, 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 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.

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. abyaran

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.	2270
Lenght	mm.	9000
Height	mm.	2550/3210
Fuel Tank Capacity	L	1900