





ISO8528	This generator set has been designed to meet ISO 8528 regulation.
SZUTEST	This generator set is manufactured in facilities certified to ISO 9001.
C€	This generator set is available with CE certification.

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

3 Phase Ratings, 60 Hz, PF 1,0

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kW	kVA	kW	Amp
480/277		300,00		275,00	413,00
380/220		300,00		272,00	517,00
208/120		300,00		275,00	954,00

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 SPECIFICATION

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.

O OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Seperator Filter

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator PMG excitation + AVR
- 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 acoustic baffles
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant 30 °C Battery isolating switch
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Four Pole Contactor

• DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins		توليد كننده	
Model		QSL 9-G5			مدل
No. of Cylindirs and Build		لندرها و نوع آرایش آنها 6 Cylinder, In Line			تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Ch	arged and	After Cooled	سیستم تنفس و خنک کاری
Total Displacement	L	8,80			جابه جایی کل
Bore and Stroke	mm	114 X 14	5		قطر سيلندر و كورس پيستون
Compression Ratio		14,0:1			نسبت تراكم
Rated Speed (rpm)	rpm	رعت مجاز 1800			سرعت مجاز
Governor		گاورنر Electronic			
Oil Capacity	L	لرفيت روغن 26,50			
Coolant Capacity	L	لرفيت خنک کننده 36,00			
Intake Air Flow	m³ /min.	ريان هواي مصرفي 24,60			جریان هوای مصرفی
Exhaust Gas Flow	m³ /min.	بان گاز خروجی از اگزوز 38,40			جریان گاز خروجی از اگزوز
Exhaust Gas Tempratures	°C	مای گاز خروجی از اگزوز 580			
Start System		24 V d.c.			استار تر
Fuel Consumption	Load	%100	%75	%50	
	L/h	75,00	55,00	36,00	مصرف سوخت

• ALTERNATOR SPECIFICATIONS

Make		Stamford	توليد كننده
Model		HCI 444E	مدل
Frequency	Hz	60	فر کانس
Power	kVA	352	توان
Design		Brushless, 4 poles	طراحى
Cos Phi		0,80	طراحی کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	529	جریان کلاس عایق بندی
Insulation Class		Н	كلاس عايق بندى
Temperatur		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
ACQ 300-6	3150	3000	1150	1900	330
Sound	Dry Weight	Lenght	Width	Height	Tank Capacity
Attenuated	kg.	mm.	mm.	mm.	L
Туре					
AK 70	4400	4550	1460	2300	650

P 732 control system - Control System 1 Menu navigation buttons 3 2 Close mains button 3 Main Status and instrumentation display 4 Alarm LED's 4 5 Close generator button 5 2 6 Status LED's L 7 Operation selecting buttons 6 -6 7

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

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 250kVA upwards and it have 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

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 Ρf 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 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

Elecrical 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

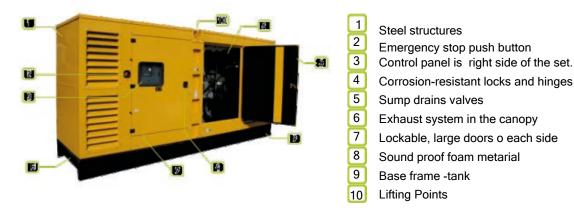
Battery charger is manufactured with switching-mode and SMD technology and it has high efficincy.

Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 24 volt DC. Input 198 - 260 volt AC. 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.

AK 70 - Canopy



Introduction

Sound-attenuated and Weather-protective Enclosures 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 (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

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.	1460
Lenght	mm.	4550
Height	mm.	2300
Fuel Tank Capacity		650