

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, 60 Hz, PF 0,8

| Voltage | Standby Rating (ESP) | | Prime Rating (PRP) | | |
|---------|----------------------|--------|--------------------|--------|--------|
| | kVA | kW | kVA | kW | Amp |
| 480/277 | | 150,00 | | 138,00 | 207,00 |
| 380/220 | | 123,00 | | 112,00 | 212,00 |
| 208/120 | | 140,00 | | 124,00 | 430,00 |

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.

1 OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Separator Filter
- Low water level alarm

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

CONTROL SYSTEM

- 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
- Manual oil drain pump
- 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
- Battery isolating switch
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

-
- Four Pole Contactor
-

➤ DIESEL ENGINE SPECIFICATIONS

| | | | | | |
|----------------------------|----------------------|--------------------------------|---------------------------------|-------|-----------|
| Manufacturer | | Cummins | تولید کننده | | |
| Model | | QSB7-G3 | مدل | | |
| Epa | | TIER III | استاندارد Epa | | |
| No. of Cylinders and Build | | 6 Cylinder, In Line | تعداد سیلندرها و نوع آرایش آنها | | |
| Aspiration and Cooling | | Turbo Charged and After Cooled | سیستم تنفس و خنک کاری | | |
| Total Displacement | L | 6,70 | جابه جایی کل | | |
| Bore and Stroke | mm | 107x124 | قطر سیلندر و کورس پیستون | | |
| Compression Ratio | | 17,2:1 | نسبت تراکم | | |
| Rated Speed (rpm) | rpm | 1800 | سرعت مجاز | | |
| Governor | | Electronic | گاورنر | | |
| Oil Capacity | L | 19,00 | ظرفیت روغن | | |
| Coolant Capacity | L | 29,00 | ظرفیت خنک کننده | | |
| Intake Air Flow | m ³ /min. | 14,80 | جریان هوای مصرفی | | |
| Exhaust Gas Flow | m ³ /min. | 37,60 | جریان گاز خروجی از اگزوز | | |
| Exhaust Gas Temperatures | ° C | 526 | دمای گاز خروجی از اگزوز | | |
| Start System | | 12 V d.c. | استارت | | |
| Fuel Consumption | Load | %100 | %75 | %50 | مصرف سوخت |
| | L/h | 42,00 | 33,00 | 23,00 | |

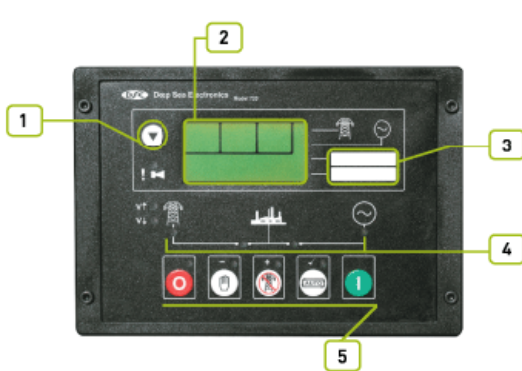
➤ ALTERNATOR SPECIFICATIONS

| | | | |
|-------------------|-----|--------------------------------------|----------------|
| Make | | Stamford | تولید کننده |
| Model | | UCI274F | مدل |
| Frequency | Hz | 60 | فرکانس |
| Power | kVA | 164 | توان |
| Design | | Brushless, 4 poles | طراحی |
| Cos Phi | | 0,80 | کسینوس فی |
| Phase | | 3 | فاز |
| Voltage | V | 480/277 | ولتاژ |
| Current | A | 246 | جریان |
| Insulation Class | | H | کلاس عایق بندی |
| Temperatur | | H | دما |
| Stator | | 2 / 3 steps | استاتور |
| Rotor | | Single Bearing System, Flexible Disc | روتور |
| Excitation System | | Electronic (AVR) | سیستم تحریک |

➤ DIEMENSIONS AND WEIGHT

| Open Type | Dry Weight | Lenght | Width | Height | Tank Capacity |
|-----------------------|------------|--------|-------|--------|---------------|
| | kg. | mm. | mm. | mm. | L |
| ACQ150U | 1700 | 2320 | 1120 | 1640 | 360 |
| Sound Attenuated Type | Dry Weight | Lenght | Width | Height | Tank Capacity |
| | kg. | mm. | mm. | mm. | L |
| ASM 6 | 2220 | 3270 | 1170 | 1870 | 320 |

1 P 72 - Control System



- 1 LCD display scroll button
- 2 LCD display
- 3 Additional alarm / Status LED's
- 4 Status LED's
- 5 Operation selecting buttons

1 Devices

DSE, model 720 Auto Mains Failure control module
Static battery charger 5A, 220/240 volt
Emergency stop push button and fuses for control circuits

1 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

1 Installation

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

1 Generating Set Control Unit

DSE 720

The DSE 720 control module is a standard addition to our generator sets up to 250kVA and it has been designed to start and stop diesel and gas generating sets. The DSE 720 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts. Module monitors the mains supply and switch over to the generator when the mains power fails.
The DSE720 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
LCD display makes information easy to read
Black-lit character/icon LCD display
Transfer between mains (utility) and generator power
On-site module configuration and remote configuration (max 100 meters) using PC software
User-friendly set-up and button layout
Front panel programming
Remote start
Multiple engine parameters are monitored simultaneously
Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays

➤ Instruments

ENGINE
Engine speed
Oil pressure
Coolant temperature
Run time
Battery volts
GENERATOR
Voltage (L-N)
Current (L1-L2-L3)
Frequency
MAINS
Voltage (L-L, L-N)

➤ Options

High oil temperature shut down
Low fuel level alarm
High fuel level alarm
Low coolant level

➤ Static Battery Charger

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

Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 12 volt DC. Input 198 - 260 volt AC.

1205 has fully output short circuit protection and it can be used as a current source.

1205 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.

➤ Protection Circuits

WARNING
Battery charge failure
Low battery voltage

SHUT DOWNS
Fail to start
Emergency stop
Low oil pressure
High engine temperature
Over /Under speed
Under/over generator
frequency
Failed to reach loading
voltage
Failed to reach loading
frequency
ELECTRICAL TRIP
Generator over current

➤ 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 for the industrial environment

ASM 6 - 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 Lockable, large doors o each side
- 7 Sound proof foam metarial
- 8 Base frame -tank
- 9 Lifting Points

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 (8 - 275kVA) fit directly to the open generator set to 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 base-tank are pre-assembled, 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.

| | | |
|--------------------|-----|------|
| Width | mm. | 1170 |
| Lenght | mm. | 3270 |
| Height | mm. | 1870 |
| Fuel Tank Capacity | | 320 |