





ISO8528	This generator set has been designed to meet ISO 8528 regulation.	
SZUTEST	This generator set is manufactured in facilities certified to ISO 9001.	
CE	This generator set is available with CE certification.	
2000/14/EC	Enclosed product is tested EU noise legislation 2000/14/EC	

#### o 3 Phase Ratings, 60 Hz, PF 0,8

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kW	kVA	kW	Amp
480/277		140,00		124,00	186,00
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 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
- 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  $\,\,^{\circ}\text{C}$
- Battery isolating switch
- Battery heater
- Main Fuel Tank
- Automatic transfer switch

#### TRANSFER SWITCH

- Four Pole Contactor

# • DIESEL ENGINE SPECIFICATIONS

Manufacturer		دننده Cummins		توليد كننده	
Model		QSB7-G2			مدل
Ера		TIER III			استاندارد Epa
No. of Cylindirs and Build		6 Cylinder	r, In Line		تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Cha	arged and	After Cooled	سیستم تنفس و خنک کاری
Total Displacement	L	6,70			جابه جایی کل
Bore and Stroke	mm	107x124			قطر سيلندر و كورس پيستون
Compression Ratio		ىت تراكم 17,2:1			نسبت تراکم
Rated Speed (rpm)	rpm	رعت مجاز 1800			سرعت مجاز
Governor		Electronic	;		گاورنر
Oil Capacity	L			ظرفيت روغن	
Coolant Capacity	L	ت خنک کننده 29,00		ظرفيت خنك كننده	
Intake Air Flow	m³ /min.	ن هوای مصرفی 14,50		جریان هوای مصرفی	
Exhaust Gas Flow	m³ /min.			جریان گاز خروجی از اگزوز	
Exhaust Gas Tempratures	°C	550			دمای گاز خروجی از اگزوز
Start System		12 V d.c.			استار تر
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
	L/h	40,00	31,00	22,00	شفرف شوخت

# • ALTERNATOR SPECIFICATIONS

Make		Stamford	توليد كننده
Model		UCI274E	مدل
Frequency	Hz	60	فركانس
Power	kVA	142	توان
Design		Brushless, 4 poles	طراحى
Cos Phi		0,80	طراحی کسینوس فی
Phase		3	فاز
Voltage	$\vee$	480/277	ولتاژ
Current	А	213	جريان
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
ACQ140U	1650	2320	1120	1640	360
Sound	Dry Weight	Lenght	Width	Height	Tank Capacity
Attenuated	kg.	mm.	mm.	mm.	L
Туре					
ASM 6	2170	3270	1170	1870	320

#### P 72 - Control System 1 LCD display scroll button 2 2 LCD display 3 Additional alarm / Status LED's 4 Status LED's -3 5 Operation selecting buttons 1 4 5

#### 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

#### 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

#### Installation

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

### Generating Set Control Unit

#### DSE 720

The DSE 720 conrol module is a standard addition to our generator sets up to 250kVA and it have 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 (utilty) 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

### 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

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 for the industral environment

# 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, 12 volt DC. Input 198 - 260 volt AC.

1205 has fully output shot 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.

# ASM 6 - Canopy



Steel structures

Emergency stop push button

Control panel is right side of the set.

Corrosion-resistant locks and hinges

Sump drains valves

Lockable, large doors o each side

Sound proof foam metarial

Base frame -tank

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