





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 according to EU noise legislation 2000/14/EC	

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	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
480/277		496,00		446,00	671,00
380/220		462,00		420,00	798,00
208/120		494,00		443,00	1537,00

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 perod of operation, in accordance with ISO 3046.

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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 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 bellows supplied separately(for open sets) Static battery charger Manual for application and installation

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ENGINE

- Remote Radiator Cooling
- Fuel-Water Seperator Filter

- Oil heater

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 motorised louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- Double wall chassis
- 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			توليد كننده
Model		KTA 19-G4			مدل
No. of Cylinders and Build		6 Cylinder, In Line			تعداد سيلندرها و نوع آرايش آنها
Aspiration and Cooling		Turbo Cha	rged and	After Cooled	سیستم تنفس و خنک کاری
Maximum Standby Power		1800 rp 563,00 [755,001	kw		توان Standby
Total Displacement	L	18,900			جابه جایی کل
Bore and Stroke	mm	159 X 159			قطر سیلندر و کورس پیستون
Compression Ratio		ت تراكم 13,9:1		نسبت تراکم	
Rated Speed (rpm)	rpm	1800		سرعت مجاز	
Governor		Electronic		گاورنر	
Oil Capacity	L	ت روغن 50,00		ظرفيت روغن	
Coolant Capacity	L	یت خنک کننده 120,00			ظرفیت خنک کننده
Intake Air Flow	m³ /min.	ى ھواى مصرفى 43,00		جریان هوای مصرفی	
Exhaust Gas Flow	m³ /min.			جریان گاز خروجی از اگزوز	
Exhaust Gas Temperature	°C	گاز خروجی از اگزوز 504,00		دمای گاز خروجی از اگزوز	
Start System		ار تر 24 V d.c.			استار تر
Eucl Consumption	Load	%100	%75	%50	مصرف سوخت
Fuel Consumption	L/h	122,00	94,00	65,00	للفرق سوحت

• ALTERNATOR SPECIFICATIONS

Make		Stamford	توليد كننده
Model		HCI 544 D	مدل
Frequency	Hz	60	فر کانس
Power	kw	515,00	توان
Design		Brushless, 4 poles	طراحى
Cos Phi		0,80	طراحی کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	774,00	جریان کلاس عایق بندی
Insulation Class		Н	كلاس عايق بندي
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 496-6	4520,00	3344,00	1550,00	2196,00	850,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
MS 80	TBD	4810	1606	2615	850



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 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)

Static Battery Charger

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

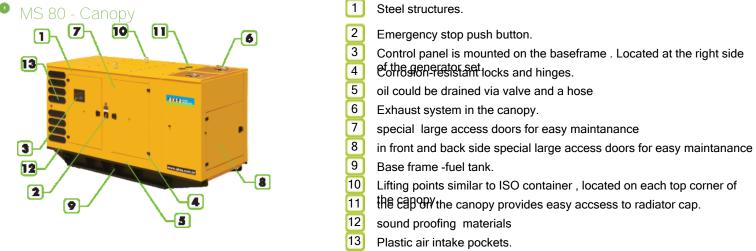
Elecrical Safety / EMC compatibility BS EN 60950 Electrical business equipment BS EN 61000-6-2 EMC immunity standard BS EN 61000-6-4 EMC emission standard

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.



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.

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. 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.	1606
Lenght	mm.	4810
Height	mm.	2615
Fuel Tank Capacity	L	850