

INTRODUCTION

The power generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory build, and production tested.

Power (kVA)

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	1800,00	2250	1636.0	2045	3247.69

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.

General Characteristics

Model Name	DPX-15525
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS QSK60-G4
Alternator Made and Model	PI734F
Control Panel Model	7320
Canopy	AK 99 - External Removable Silencer

ENGINE SPECIFICATIONS

Engine	CUMMINS
Engine Model	QSK60-G4
Number of Cylinder (L)	16 cylinders - V type
Bore (mm.)	159
Stroke (mm.)	190
Displacement (lt.)	60.2
Aspiration	Turbo Charged and After Cooled
Compression Ratio	14.5:1
RPM (d/dk)	1500

Oil Capacity (Total With Filter) (lt)	280
STANDBY POWER	1915/2567
Prime Power	1730/2319
Block Heater QTY	2
Block Heater Power (Watt)	3000
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Cummins HPI-TP
Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	4x143
Charge Alternator (A)	55
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	2374
Coolant Capacity (engine only / with radiator) (lt)	42/500
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	394
Fuel Cons. Prime With %75 Load (lt/hr)	291
Fuel Cons. Prime With %50 Load (lt/hr)	200

ALTERNATOR CHARACTERISTICS

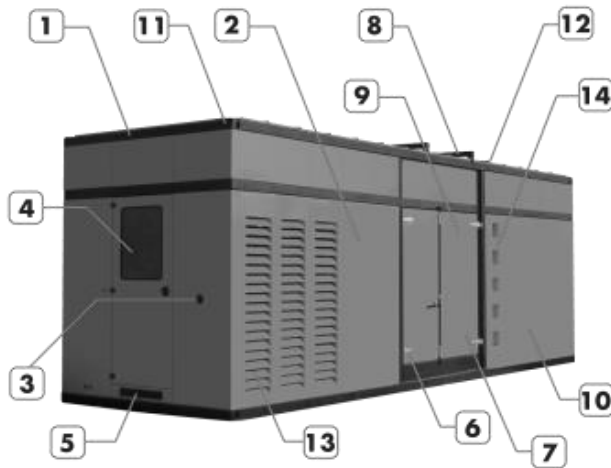
Manufacturer	Stamford
Alternator Made and Model	PI734F
Frequency (Hz)	50
Power (kVA)	2080
VOLTAGE (V)	400
Phase	3
A.V.R.	MX341
Voltage Regulation	(+/-)1%
Insulation System	H
Rated Power Factor	0.8
WEIGHT WOUND ROTOR (Kg)	1609
COOLING AIR (m³/min)	161.4

Open Gen.Set Dimensions (mm)

LENGHT	5810
WIDTH	2280
HEIGHT	2970
DRY WEIGHT (kg.)	15500
TANK CAPACITY (lt.)	2000/2200

Gen.Set Canopy Dimensions (mm)

LENGHT	9000
WIDTH	2800
HEIGHT	3300
DRY WEIGHT (kg.)	21100
TANK CAPACITY (lt.)	2000/2200



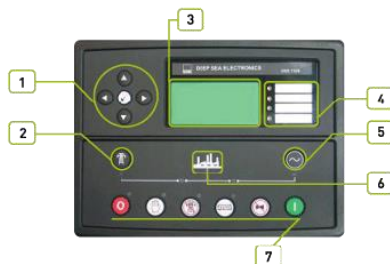
1. Steel structure made from steel sheet and steel profiles.
2. Canopy and panels made from powder coated sheet steel.
3. Emergency stop push button.
4. Control panel is mounted on the base frame located at the back of the Generator set.
5. Cables out locations are back of the canopy.
6. Corrosion. Resistant locks and hinges.
7. Oil could be drained via valve and a hose.
8. Exhaust system on the canopy.
9. Special large access doors for easy maintenance.
10. The cap on the canopy provides easy access to radiator cap.
11. Lifting points similar to ISO container, located on each top corner of the Canopy.
12. Sound proofing materials.
13. Fuel tank is at front of the canopy ,easy access to the fuel tank via lockable door.
14. Integrated ladder built in topside of the canopy allows access to the top of the canopy.

INTRODUCTION

Sound-attenuated and weather protective enclosures for our generating sets, meet even 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.

Control Panel

Control Module	DSE
Control Module Model	7320
Communication Ports	MODBUS



1. 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

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 base frame on robust steel stand or power module. Located at side of generating set with properly panel visibility.

GENERATING SET CONTROL UNIT

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas 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

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

Options

High oil temperature shut down

Low fuel level shut down

Low fuel level alarm

High fuel level alarm

EXPANSION MODULES

Additional LED module (2548)

Expansion relay module (2157)

Expansion input module (2130)

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 efficiency.

Battery charger models' output V-I characteristic is very close to square

2405 has fully output short 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.

STANDARD SPECIFICATIONS

- 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
- Generators Sets' voltage and frequency regulation comply with ISO 8528-5
- Generators Sets' can take 100% load at one step according to NFPA110

OPTIONAL EQUIPMENTS**ENGINE**

Remote Radiator Cooling

Fuel-Water Separator Filter

Oil heater

ALTERNATOR

Anti-Condensation Heater

Oversized alternator

Main line circuit breaker

CONTROL SYSTEM

Automatic synchronizing and power control system (multi gen-set Parallel)

Parallel system with mains.

Transition synchronization with mains

Remote annunciator panel

Alarm output relays

Remote communication with modem

Earth fault, single set

Charge Ammeter

TRANSFER SWITCH

Three or four pole contactor

Three or four pole motor operated circuit breaker

OTHER ACCESSORIES

Main Fuel Tank

Automatic or manual fuel filling system

Electrical oil drain pump

Low and high fuel level alarm

Residential silencer

Enclosure: weather protective or sound attenuated

Duct adapter (on radiator)

Inlet and outlet motorized louvers

Inlet and outlet acoustic baffles

Tool kit for maintenance

1500/3000 hours maintenance kit

Supplied with oil and coolant - 30 °C

- TS ISO 8528

GENSET CERTIFICATES

- CE

- SZUTEST

- 2000/14/EC