





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

STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper	
VOLTAGE	kW	kVA	kW	kVA	
400/231	105,00	132	96.0	120	190.7

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-15549
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	DOOSAN D1146T
Alternator Made and Model	Mecc Alte ECP34-1L/4
Control Panel Model	7320
Canopy	50 TRP

ENGINE SPECIFICATIONS

ENGINE OF EGILIOATIONS	
Engine	DOOSAN
Engine Model	D1146T
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	111
Stroke (mm.)	139
Displacement (lt.)	8.071
Aspiration	Turbo Charged and Intercooled(Air to Air)
Compression Ratio	16.4:1
RPM (d/dk)	1500



Oil Capacity (Total With Filter) (It)	15.5
STANDBY POWER	105/132
Prime Power	96/120
Block Heater QTY	1
Block Heater Power (Watt)	15000
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Zexel P inline
Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x85
Charge Alternator (A)	45
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	250
Coolant Capacity (engine only / with radiator) (It)	14/46
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	25.9
Fuel Cons. Prime With %75 Load (lt/hr)	19.5
Fuel Cons. Prime With %50 Load (lt/hr)	13.6
ALTERNATOR CHARACTERISTICS	
ALTERNATOR CHARACTERISTICS Manufacturer	Mecc Alte
	Mecc Alte Mecc Alte ECP34-1L/4
Manufacturer	
Manufacturer Alternator Made and Model	Mecc Alte ECP34-1L/4
Manufacturer Alternator Made and Model Frequency (Hz)	Mecc Alte ECP34-1L/4 50
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA)	Mecc Alte ECP34-1L/4 50 200
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V)	Mecc Alte ECP34-1L/4 50 200 400
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase	Mecc Alte ECP34-1L/4 50 200 400 3
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R.	Mecc Alte ECP34-1L/4 50 200 400 3 SX440
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1%
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection Rated Power Factor	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22 0.8
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection Rated Power Factor WEIGHT WOUND ROTOR (Kg)	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22 0.8 227.53
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection Rated Power Factor WEIGHT WOUND ROTOR (Kg) COOLING AIR (m³/min)	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22 0.8 227.53
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection Rated Power Factor WEIGHT WOUND ROTOR (Kg) COOLING AIR (m³/min) Open Gen.Set Dimensions (mm)	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22 0.8 227.53 30.84
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection Rated Power Factor WEIGHT WOUND ROTOR (Kg) COOLING AIR (m³/min) Open Gen.Set Dimensions (mm) LENGHT	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22 0.8 227.53 30.84
Manufacturer Alternator Made and Model Frequency (Hz) Power (kVA) VOLTAGE (V) Phase A.V.R. Voltage Regulation Insulation System Protection Rated Power Factor WEIGHT WOUND ROTOR (Kg) COOLING AIR (m³/min) Open Gen.Set Dimensions (mm) LENGHT WIDTH	Mecc Alte ECP34-1L/4 50 200 400 3 SX440 (+/-)1% H IP22 0.8 227.53 30.84

380

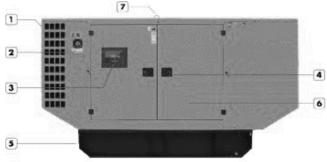
TANK CAPACITY (It.)





Gen.Set Canopy Dimensions (mm)

Comect Camepy 2 milenene (mm)		
LENGHT	3400	
WIDTH	1220	
HEIGHT	1940	
DRY WEIGHT (kg.)	2175	
TANK CAPACITY (lt.)	380	



- 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. Sound proof foam material
- 7. Lifting Points

INTRODUCTION

Sound–attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for our generating sets, 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.

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

DPX

Doosan 132 kVA

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 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.

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
- 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

OPTIONAL EQUIPMENTS

ENGINE

Fuel-Water Separator Filter

Oil heater

ALTERNATOR

Anti-Condensation Heater

Oversized alternator

PMG excitation + AVR

Main line circuit breaker

CONTROL SYSTEM

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



Transition synchronization with mains

Remote annunciator panel

Remote relay output

Alarm output relays

Remote communication with modem

Earth fault, single set

Charge Ammeter

TRANSFER SWITCH

Three Pole Contactor

Four Pole Contactor

Three or four pole motor operated circuit breaker

OTHER ACCESSORIES

Main Fuel Tank

Automatic or manual fuel filling system

Manual 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

Trailer

Tool kit for maintenance

1500/3000 hours maintenance kit

Double wall chassis

GENSET CERTIFICATES

- TS ISO 8528
- CE
- SZUTEST
- 2000/14/EC