



| SERVICE               |         | PRP                 | ESP |
|-----------------------|---------|---------------------|-----|
| POWER                 | kVA     | 100                 | 102 |
| POWER                 | kW      | 80                  | 82  |
| RATED SPEED           | r.p.m.  | 1.500               |     |
| STANDARD VOLTAGE      | V       | 400/230             |     |
| AVAILABLE VOLTAGES    | V       | 230/132 · 230 V (t) |     |
| RATED AT POWER FACTOR | Cos Phi | 0,8                 |     |



## RENTAL RANGE

FILIAL UK Company with quality certification ISO 9001

FILIAL UK gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

G2 class load acceptance in accordance with ISO 8528-5:2018

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## SOUNDPROOFED RENTAL

- DS5R
- WATER-COOLED
- THREE PHASE
- 50 / 60
- STAGE V
- DIESEL

Filial UK has the right to modify any feature without prior notice.

Weights and dimensions based on standard products. Illustrations may include optional equipment.

Technical data described in this catalogue correspond to the available information at the moment of printing.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.



## Engine Specifications | 1.500 r.p.m.

|                                     |                               |           |
|-------------------------------------|-------------------------------|-----------|
| Rated Output (PRP)                  | kW                            | 91,8      |
| Rated Output (ESP)                  | kW                            | 91,8      |
| Manufacturer                        | FPT_IVECO                     |           |
| Model                               | F36.ETVP03.A94                |           |
| Engine Type                         | 4-stroke diesel               |           |
| Injection Type                      | Direct, common rail           |           |
| Aspiration Type                     | Turbocharged and after-cooled |           |
| Number of cylinders and arrangement | 4-L                           |           |
| Bore and Stroke                     | mm                            | 102 x 110 |
| Displacement                        | L                             | 3,6       |
| Cooling System                      | Liquid (water + 50% glycol)   |           |
| Lube Oil Specifications             | 10W-40 (API CJ-4, CK-4)       |           |
| Compression Ratio                   | 17:1                          |           |

|   |       |            |
|---|-------|------------|
| Lube oil consumption with full load         | g/kWh | 0,25       |
| Total oil capacity including tubes, filters | L     | 9,5        |
| Governor                                    | Type  | Electrical |
| Air Filter                                  | Type  | Dry        |

- Diesel engine
- Water-cooled
- 4-stroke cycle
- 12V electrical system
- Dry air filter
- Water separator filter (no visible level)
- Radiator with pusher fan
- Radiator water level sensor
- HTW sender
- LOP sender
- Electronic governor
- Moving parts protection
- Hot parts protection



## Generator Specifications | STAMFORD

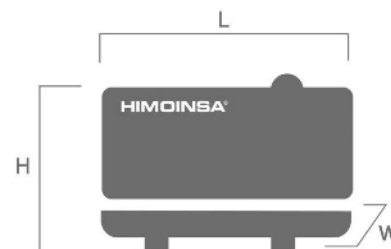
|                            |             |         |
|----------------------------|-------------|---------|
| Manufacturer               | STAMFORD    |         |
| Model                      | UCI274C     |         |
| Poles                      | No.         | 4       |
| Connection type (standard) | Star-series |         |
| Mounting type              | S-3 11*1/2  |         |
| Insulation                 | Class       | H class |

|                                |                                |
|--------------------------------|--------------------------------|
| Enclosure (according IEC-34-5) | IP23                           |
| Exciter system                 | Self-excited, brushless        |
| Voltage regulator              | A.V.R. (Electronic)            |
| Bracket type                   | Single bearing                 |
| Coupling system                | Flexible disc                  |
| Coating type                   | Standard (Vacuum impregnation) |

- Self-excited and self-regulated
- IP23 protection
- H class insulation

## WEIGHT AND DIMENSIONS

| Standard Version                         |                |       |
|--|----------------|-------|
| Length (L)                               | mm             | 2.960 |
| Height (H)                               | mm             | 1.895 |
| Width (W)                                | mm             | 1.200 |
| Maximum shipping volume                  | m <sup>3</sup> | 6,73  |
| Weight with liquids in radiator and sump | Kg             | 2171  |
| Fuel tank capacity                       | L              | 450   |
| Autonomy                                 | Hours          | 24    |
| Steel tank                               |                |       |



## SOUND PRESSURE

|                      |          |          |
|----------------------|----------|----------|
| Sound pressure level | dB(A)@7m | 65 ± 2,4 |
|----------------------|----------|----------|

## APPLICATION DATA

### EXHAUST SYSTEM

|                                 |      |      |
|---------------------------------|------|------|
| Maximum exhaust temperature     | °C   | 740  |
| Maximum allowed back pressure   | mbar | 220  |
| Heat dissipated by exhaust pipe | kW   | 73,5 |
| Adblue Tank Capacity            | L    | 43   |

### NECESSARY AMOUNT OF AIR

|                         |                   |       |
|-------------------------|-------------------|-------|
| Intake air flow         | m <sup>3</sup> /h | 321   |
| Cooling Air Flow        | m <sup>3</sup> /s | 1,8   |
| Alternator fan air flow | m <sup>3</sup> /s | 0,514 |

### FUEL CONSUMPTION

|                           |     |       |
|---------------------------|-----|-------|
| Fuel Consumption 100% ESP | l/h | 23,5  |
| Fuel Consumption 70 % ESP | l/h | 16,49 |
| Fuel Consumption 100% PRP | l/h | 22,74 |
| Fuel Consumption 70 % PRP | l/h | 15,62 |
| Fuel Consumption 50 % PRP | l/h | 11,2  |

### FUEL SYSTEM

|                         |        |     |
|-------------------------|--------|-----|
| Fuel Oil Specifications | Diesel |     |
| Fuel Tank               | L      | 450 |

### STARTING SYSTEM

|                   |     |    |
|-------------------|-----|----|
| Auxiliary Voltage | Vdc | 12 |
|-------------------|-----|----|



## Soundproofed version

- Steel chassis
- Manhole to fill the radiator
- Pre-installation or niche to house the quick connection hydraulic fittings for fuel transfer
- Anti-leakage chassis, predisposed to retain liquids (retention tray)
- Manhole for fuel tank cleaning and drainage
- Tilting cap in the exhaust
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Oil sump extraction kit
- Emergency stop button (double emergency stop protection: Interior on the panel + Exterior on the bodywork)
- Mechanized for power cable output
- Door with window to visualize control panel, alarms and measurements
- Pressure locks
- IP Protection according to ISO 8528-13:2016



## CONTROL PANELS



### DS5 (Rental stage V)

Digital manual Auto-Start control panel and thermal magnetic protection (depending on current and voltage) and differential with CEM7 and socket boxes: 2x16A (2Ph), 1x16A (3Ph), 1x32A (3Ph) and 1x63A (3Ph).



### Electrical system

- Power panel with built-in circuit breaker plates
- Safety relay in output terminal board (thermal magnetic trip and alarm in control unit)
- Battery Switch
- M12 control panel with electronic DSE 7310 control unit and switched emergency stop
- Socket boxes IP67
- Adjustable earth leakage protection (time & sensitivity) standard in M12, with thermal magnetic protection
- Socket boxes with 2x16A (2Ph), 1x16A (3Ph), 1x32A (3Ph) y 1x63A (3Ph)
- 4-pole thermal magnetic circuit breaker
- Battery charger alternator with ground connection
- Starter battery/ies installed (cables and bracket included)
- Ground connection electrical installation with connection ready for ground spike (not supplied)