



# DPS 450

## ► Specifications

### Genset model

Rated speed	rpm	1500
Net Frequency	Hz	50
Rated voltage 3 phases	V	400/230
Rated apparent power (PRP) 3 phases	kVA	477
Rated apparent power (LTP) 3 phases	kVA	524
Nominal current (LTP) 400V - 3 phases	A	756,82

### Engine

Make		DEUTZ
Model		BF8M1015C
Exhaust Emission Standard	Stage	TAL2000/Stage2
Rated PRP gross power	kW	413,0
Rated LTP gross power	kW	459,0
Cooling system		water
Speed governing		electronic
Governing Standard		G2
Number of cylinders		8
Engine configuration		V
Displacement	ltr	15,88
Bore/Stroke	mm	132/145
Compression Ratio		16,5
Electrical equipment	V/dc	24

### Air

Max. Intake depression ( Switch setting )	[mbar]	50
Combustion Air Volumne	[m³/h]	1909

### Exhaust System

Max. exhaust Gas Temperature	[C°]	540
Max. Exhaust back pressure	[mbar]	50
Exhaust Gas Flow (at above temperature)	[m³/h]	5410

### Cooling System

Standard Cooling System		
Fan Power Consumption	[kW]	9,3
Cooling Air Flow	[m³/h]	32940
Air Pressure Loss	[mbar]	1,5
Heat dissipation (convection)	[kW]	337

### Lube Oil System

Lube Oil Capacity (Slump)	[LTR]	45
Min Oil Pressure ( Shutdown)	[bar]	2,7

## Fuel Consumption

25% Load	212 [g/kWh]	29,1 [LTR/Hour]
50% Load	202 [g/kWh]	55,5 [LTR/Hour]
75% Load	204 [g/kWh]	84 [LTR/Hour]
100% Load	207 [g/kWh]	117,5 [LTR/Hour]
Fuel Filter	Spin-on Fuel Filter	
Optional	Pre-Filter w/ Water Separator	

## Noise Level ( Open / Canopy )

Sound pressure - 100% load, 7m average	dB(A)	67
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## Generator

Make	Mecc Alte	
Model	ECO40 2S4A	
Generator efficiency	%	94,3

## Controller

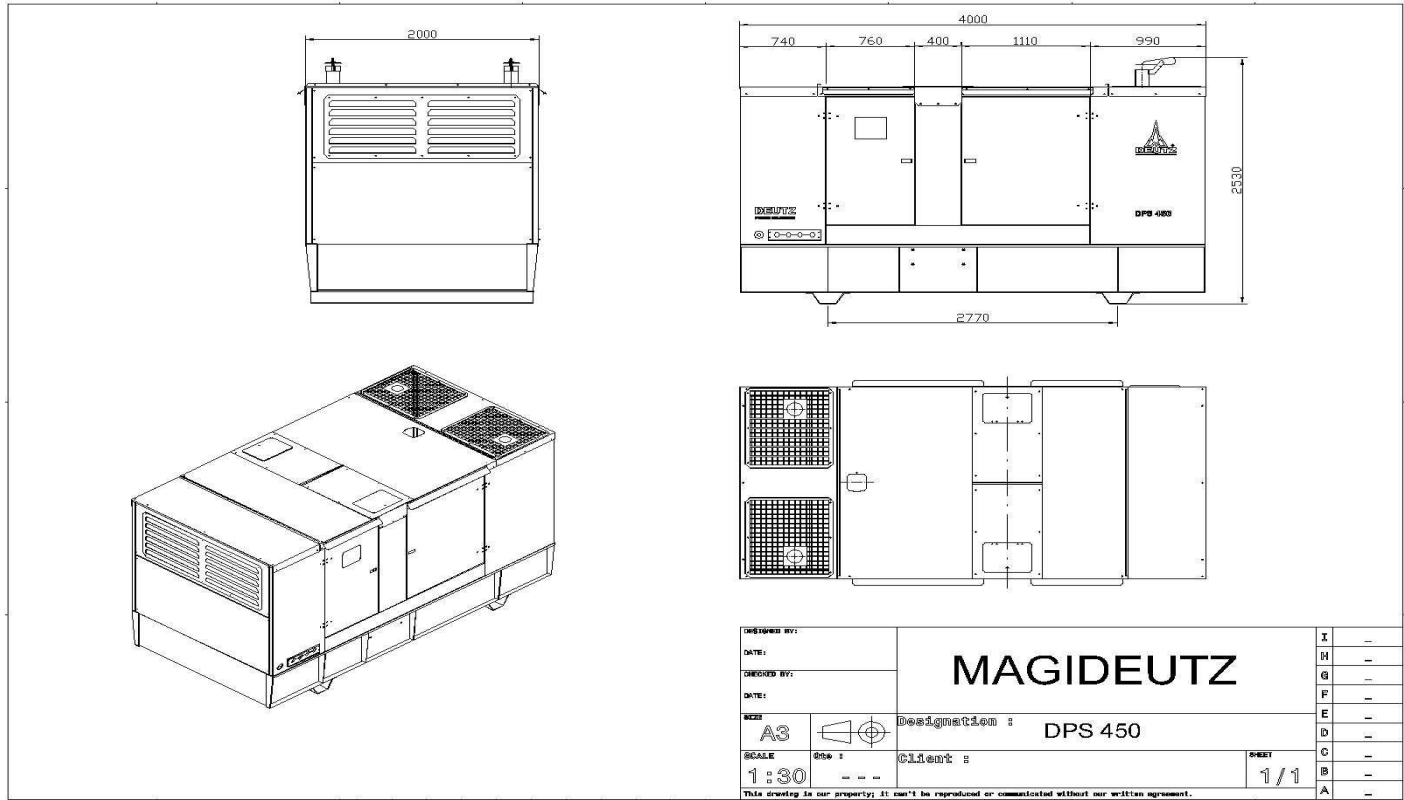


DEUTZ MODEL DESCRIPTION	CLASSIC	BASIC	COMFORT	DELUXE
<b>FEATURES</b>				
Binary Inputs / Outputs	6/6	4/6	7/7	8/8
Analog Inputs	3	3	3	4
Input & Output Configurations	✓	✓	✓	✓
D+ battery charging alternator circuit	✓	✓	✓	✓
Generator protections	✓	✓	✓	✓
AMF / MRS Functions	✓	✓	✓	✓
GCB/MCB Control with Feedback	✓	without feedback	✓	✓
Frequency measurement Gens/Mains	✓	✓	✓	✓
ECU support via CAN	✓	✓	✓	✓
kW / kWh / kVA measurement	kVA	Kw/Kwh/kVA	Kw/Kwh/kVA	Kw/Kwh/kVA
Magnetic pickup	x	✓	✓	✓
RTC / Battery	x	x	✓	✓
Total Fuel Consumption	x	x	✓	✓
Dummy Load / Load Shedding	x	x	✓	✓
Analog Calibration	x	x	✓	✓
Auto.Temperature based on heating & cooling	x	x	✓	✓
PLC	x	x	x	✓
Modbus support / SNMP support	x	x	○	✓
SNMP traps	x	x	x	○
Remote Control	x	○	○	○
Earth fault current protections	x	x	○	○
Manual Speed Control (For ECU Engines)	x	x	x	✓
2 x 10 A binary output for cranking and fuel solenoid	x	x	x	✓
Fuel pump	x	x	x	✓
Connection type autodetect	x	x	x	✓
TIER 4 Final Support	x	x	x	✓

-  Included
-  Excluded
-  Optional - Plug in



<b>Weight and dimensions</b>		Open	Canopy
Weight	kg	2900	3920
Length	mm	3000	4000
Width	mm	1800	2000
Height	mm	2200	2530
<b>Fuel tank capacity (option)</b>		ltr	650
			500



#### **Cowling and soundproofing:** According to international standards

- The inner walls of the cowling: pulverized antiresonant material
- Doors and hatches: Sealed with rubber and foam join resists heat
- All steel supports: sandblasted and degreased covered:

- \* A first layer of epoxides
- \* Two coats of synthetic paints

#### **Coupling**

The engine and alternator are coupled together and form a single piece by a semi elastic device.

The coupling system is specially designed piece, flywheel housing.

The system provides constant perfect alignment and allow a simple and easy maintenance

#### **Chassis**

The frame is steel, generously sized, fully welded to the arc and absolutely rigid to support the complete generator with all accessories, coupled to the generator. Electrically welded which will be installed the engine and alternator through the insulating elastic soles vibration fixed with galvanized bolts and washers.

The motor generator will be rigidly fixed flanges with a piece of semi elastic coupling

#### **Painting**

The painting is of high quality and made of metalized  
2 primer and 2 topcoats for all components and  
accessories of the generator.

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