



DPS 40 OF ER

Deutz Power Solutions

Generators equipped with DEUTZ Engines

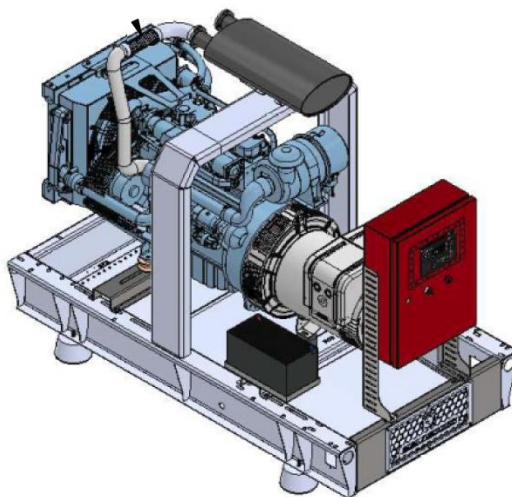


deutz.com.ua automotors.com.ua

☎ : +38 (067) 406-06-06

Diesel genset DPS 40 OF ER

40 kVA | Open Frame



Product composition

Engine	DEUTZ
Alternator	Leroy Somer
Canopy	-
Control panel	Standard

Fuel data

Type	Gasoil
Fuel tank capacity	100 l
Autonomy at 75% load	appr. 12 hours

General data

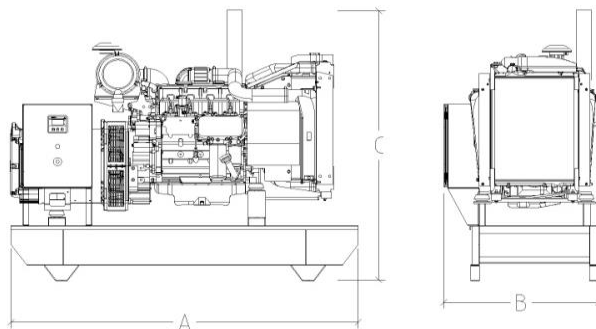
Power (PRP)	kVA	40,0
Power (PRP)	kW	32,0
Power (LTP)	kVA	44,0
Power (LTP)	kW	35,2
Current	A	57,6
Speed	rpm	1500
Frequency	Hz	50
Voltage	V	230/400
Power factor	cos φ	0,8

Fuel consumption (Gasoil et 850g/l)

25 % of load	253 g/kWh - 2,4 l/h
50 % of load	219 g/kWh - 4,1 l/h
75 % of load	215 g/kWh - 6,1 l/h
100 % of load	221 g/kWh - 8,3 l/h

Dimension and weight

Length (A)	mm	1947
Width (B)	mm	1010
Height (C)	mm	1486
Weight	kg	770



PRP (Prime Running Power)

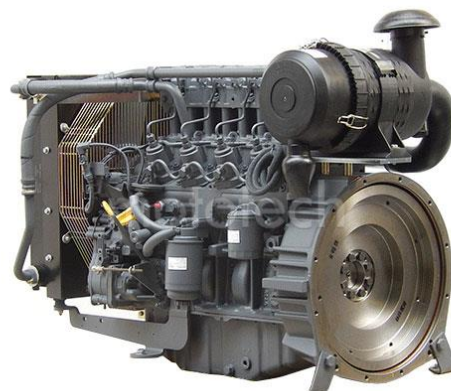
Applicable to supply a variable electric charge for an unlimited number of hours.
The main power supply (PRP) complies with ISO 8528. A ten percent overload capacity is available, in accordance with ISO 3046, AS

LTP (Limited Time Power)

Applicable to supply a constant electrical charge for a limited number of hours.
The time-limited operating power supply (LTP) complies with ISO 8528.

Diesel genset DPS 40 OF ER 40 kVA | Open Frame

ENGINE



General engine data	
Deutz engine type (Germany)	BF4M2011
Speed	1500 rpm
Power PRP	39,2 kW
Power LTP	41,2 kW
Exhaust Emission Standard	Stage 2

Specific engine data	
Aspiration	turbo
No of cylinders	4
Cylinder configuration	In line
Injection system	single pumps
Displacement	3.1 l
Bore	94 mm
Stroke	112 mm
Compression ratio	18,1
Mean effective pressure (PRP)	10,6 bar
Piston speed	5,60 m/s
No of teeth on flywheel ring gear	129
Governor type	Mechanical

Lubrification system	
Oil specifications	API CF4, SAE 10W40
Oil consumption	0,3%/gasoil
Oil capacity	10 l
Minimum oil pressure (warning)	2,1 bar
Minimum oil pressure (shut down)	1,5 bar
Maximum permissible oil temperature (oil pan)	130 °C

Engine cooling system	
Cooling system	Oil
Heat dissipation (engine radiator)	23,0 KW
Fan power consumption	1,0 KW
Cooling air flow	2370 m3/h

Exhaust system (PRP)	
Maximum intake depression (switch setting)	20 mbar
Combustion air volume	168 m3/h
Maximum exhaust back pressure	30 mbar
Maximum exhaust gas temperature	611 °C
Exhaust gas flow (at above temp)	468 m3/h
Exhaust flange / pipe diameter	45 mm

Electrical system	
Voltage	12V DC
Starter	4 kW
Alternator output	56 A
Minimum battery capacity (for cold start limit -5°C)	67 Ah

Engine weight and dimensions	
Lenght	1070 mm
Width	625 mm
Height	805 mm
Weight	304 Kg

Diesel genset
DPS 40 OF ER
 40 kVA | Open Frame

ALTERNATOR



Alternator general data

Alternator brand	LEROY SOMER
Alternator model	TAL 042 E
No of pole	4
No of bearing	1
Technology	Brushless
Winding pitch	2/3
Insulation system	H
Protection	IP23
Number of wires	6/12
Overload 300%-20s	According to NEMA
Voltage regulation	Electronic r120/r180
Connection type	Standard
Bearing	Singe bearing
Coupling type	standard
Coupling SAE	SAE3 – 11,5
Exciter type	Self-exciting
Impregnation	Steel frame Aluminum flanges and shields
Bearing type	Greased for life bearings

Performance data

PRP Power at 40°C-400V	40 kVA
LTP Power at 27°C-400V	45 kVA
Efficiency at 100% load	87,6%
Frequency	50 Hz
Voltage Regulation	+/-1%
Phases Number	3 Ph / 1 Ph
Voltage	400 V / 230 V
Power Factor	0,8

Additional Information - Class H / 400V

Io Excitation current at no load	0,63 A
Ic Excitation current at full load	2,14 A
Overload 1 hour in a 6 h. period	According to NEMA
Overload per 20 sec	According to NEMA
Max Speed	2250 rpm
Cooling air volume	11.7 m3/min
TIF	< 50
Telephone Harmonic Factor - THF	< 2%
THD	< 2% / < 5%
Direction of rotation	clockwise and counterclockwise without derating

Diesel genset DPS 40 OF ER 40 kVA | Open Frame

CONTROL PANEL

PRODUCT DESCRIPTION

Single Gen-set controller for Stand-by and Prime power applications

Direct communication with EFI engines

Total remote monitoring and control

Digital controller **ComAp AMF 25**



MAIN KEY FEATURES

8 binary outputs, 8 binary inputs, 4 analog inputs, 2 high-current binary outputs

ECU support & Tier 4 Final ready, STAGE V support

Plug-in module concept for more capabilities (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os)

2 slots for plug-in modules, CAN modules support, Power over USB for controller's adjustment, 3 maintenance timers (counting even under zero)

Dual Application: control of Gen-set, transfer switch and alternation

Possibility to disable protections

3 levels of password, 3 sets of alternative configurations, 5 languages in the controller & translator functionality

Geo-Fencing and tracking via WebSupervisor

Comprehensive history log with up to 350 events