

DEUTZ Power Solutions

Product Overview ■ North American Tier 4 Final ■ DOC Only



The engine company.



DEUTZ Power Solutions Genset

DEUTZ manufactures and tests complete power generator sets, ensuring the quality, performance and reliability that customers have come to expect. The Standard DPS package includes various features and can be customized to meet any application requirements.

Standard Package

- DEUTZ generating set, single-source responsibility.
- Standard DEUTZ warranty and service package.
- DEUTZ factory-built and tested.
- Unit-mounted radiator with 50°C (122°F) ambient.
- Complete with fan guards, mounted air cleaner and exhaust aftertreatment.
- Close-coupled, brushless, rotating-field alternator with broad range of reconnection options.
- Cross rails for base-frame mounting or customer machine installation.

Genset Completion Kit Options

- Loose control panels – auto start and auto mains failure
- Loose controller – Dynagen controller (TG410)
- Wiring harness and extension harness for above (approximately six ft)
- Exhaust flex pipe
- Remote and top DOC kit including heat-wrap options
- Anti-shock mounts (quantity of 4, supplied loose)
- Generator set lifting provision
- Extra fuel-transfer pump for high-lift applications
- PCV heater
- Block heater
- Acceptance test report – 22000473

For information about additional features, please contact your local DEUTZ partner or info@deutzusa.com.

Rating Definition

Prime Rating (PRP)

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operation, and this model can supply 10% overload power for one hour in a 12 hour period.

Standby Rating (LTP)

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions

Standard reference conditions include a 25°C (77°F) air inlet temp, 100m (328 ft) A.S.L. 30% relative humidity.

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Technical Data

WATER-COOLED ENGINES

GENSET MODELS		DPS 27	DPS 50	DPS 60
Rated Speed	<i>rpm</i>	1800	1800	1800
Rated voltage, 3 phase	<i>V</i>	240/480	240/480	240/480
Rated power 0.8 power factor (PRP) 3 phase	<i>KVA</i>	24	45	50
Rated power 0.8 power factor (LTP) 3 phase	<i>KVA</i>	27	50	56
Rated power (PRP) 3 phase	<i>kWe</i>	19	36	40
Rated power (LTP) 3 phase	<i>kWe</i>	22	40	45
Nominal current (LTP) 480 V 3 phase	<i>A</i>	32	60	72
Generator output reconnectable ratings	<i>V</i>	For details please refer to DEUTZ Application department or Local DEUTZ Dealer		

Engine

Model		D2.9	TD2.9	TD 3.6
Rated PRP gross power	<i>kW</i>	23.3	41.5	46.9
Rated LTP gross power	<i>kW</i>	25.9	46.1	52.1
Rated PRP gross power	<i>HP</i>	31.2	55.6	62.8
Rated LTP gross power	<i>HP</i>	34.7	61.7	69.8
Speed governor		Elect G2	Elect G2	Elect G2
Number of cylinders		4	4	4
Engine configuration		IL	IL	IL
Exhaust after treatment		DOC	DOC	DOC
Displacement	<i>ltr</i>	2.90	2.90	3.6
Bore/stroke	<i>mm</i>	92/110	92/110	98/120
Electrics	<i>V/dc</i>	12	12	12
Fuel specification		ASTM D975	ASTM D975	ASTM D975

Generator

Make		DEUTZ	DEUTZ	DEUTZ
Model		ECP28-2L/4	ECP32-1M/4	ECP32-2M/4
Generator efficiency	<i>%</i>	89.9	90.5	91.3

Estimated Fuel Consumption

Specific Fuel Consump	<i>g/kW/h</i>	236	231	217
Fuel @ 75% duty cycle	<i>l/h</i>	5.46	9.51	10.09
Fuel @ 75% duty cycle	<i>USgal/h</i>	1.44	2.51	2.66

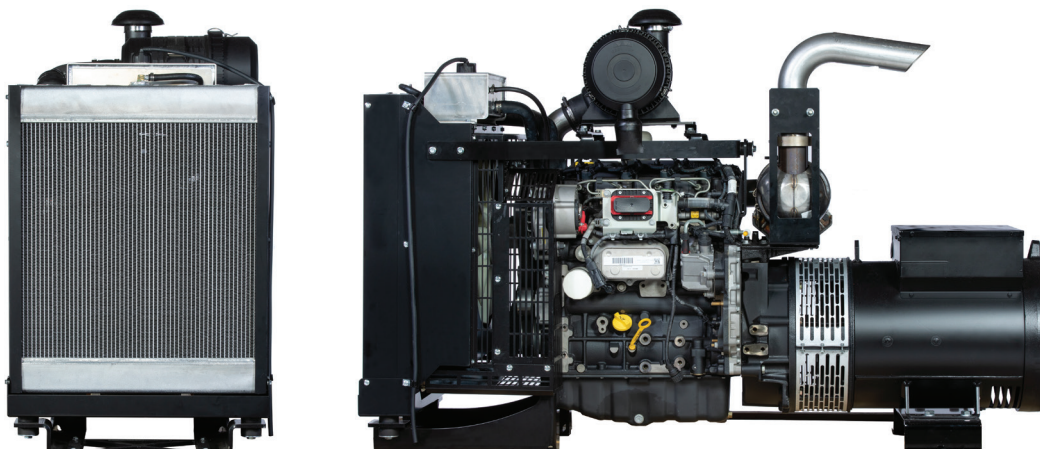
Emission Certification

EPA/CARB		Tier 4 f	Tier 4 f	Tier 4 f
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Weights and Dimension

Genset w/o panel (dry)	<i>kg</i>	527	608	823
Length	<i>mm</i>	1541	1754	1805
Width	<i>mm</i>	676	655	734
Height	<i>mm</i>	1173	1082	1102

* TD 2.9 shown



Control Panels

DEUTZ generator sets come with the option of a stand-alone control panel, which includes the Dynagen TG410 control module. These panels are suitable for use in a wide variety of single genset applications.

- Stand-alone LOFA control box and Dynagen controller (TG410)
- E-stop installed and prewired
- All prewired internally complete with AC voltage and AC current wires terminated to 12 PIN Deutsch Connector on Rear of Panel; for sense wire and current transformers
- Deutsch 21 pin on rear matching Deutz standard pinout
- 8x8 Aluflex™ enclosure completed with Bracket mount and Vibration isolators
- AC fuse block and fuses (600VAC Rated)
 - DC fuse holders and fuses
 - Terminal strips
 - CAN diagnostic cannon plug connector (mounted and wired)



Documentation

Documentation includes a full set of operation, maintenance and installation manuals, along with circuit-wiring diagrams.

Note: Genset dimensions and weights vary depending on the scope of delivery.

Note: DEUTZ reserves the right to change information within this document without notice.

For more information, please contact DEUTZ Corporation or the responsible sales partner.

Generator Set Standards

The equipment meets the following standards: ISO 8528, ISO 3046

Add-on Components

DEUTZ offers a broad portfolio of add-on components.

For further information, please contact your DEUTZ partner or info@deutzusa.com.

Warranty

All equipment carries the DEUTZ standard manufacturer's warranty.

For details on warranty coverage please contact your responsible sales partner, or visit our website:

www.deutzamericas.com

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