

DEUTZ Power Solutions

Product Overview ■ Americas Tier 2



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 dual speed 50/60 hz generating set, single-source responsibility.
- DEUTZ factory-built and tested.
- Unit-mounted radiator with 50°C (122°F) ambient.
- Complete with fan guards, mounted air cleaner and exhaust silencer.
- 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 panel – auto start and auto mains failure
- Loose controller – Dynagen controller (TG350)
- Exhaust silencer (in line silencer) – 22000490
- Exhaust bend, loose
- Flexible exhaust pipe, loose; with flange – 22000644
- Generator set lifting provision
- Acceptance test report – 22000473
- PCV heater
- Block heater

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

LIQUID-COOLED ENGINES

GENSET MODELS		DPS 15	DPS 23	DPS 38	DPS 50
Rated Speed (dual)	<i>rpm</i>	1800/1500	1800/1500	1800/1500	1800/1500
Frequency	<i>HZ</i>	60/50	60/50	60/50	60/50
Voltage range, 3 phase	<i>V</i>	230/480/400	230/480/400	230/480/400	230/480/400
Rated power 0.8 power factor (PRP) 3 phase	<i>KVA</i>	13.5/13.2	20.3/20.0	33.8/30.0	45.0/35.1
Rated power 0.8 power factor (LTP) 3 phase	<i>KVA</i>	15.0/13.7	22.5/22.0	37.5/32.1	50.0/39.0
Rated power (PRP) 3 phase	<i>kWe</i>	10.8/10.5	16.2/16.0	27.0/24.0	36.0/27.9
Rated power (LTP) 3 phase	<i>kWe</i>	12.0/11.0	18.0/17.6	30.0/25.7	40.0/31.0
Nominal current (LTP) 480 V 3 phase	<i>A</i>	18.0	27.0	45.0	60.0
Generator output reconnectable ratings	<i>V</i>	For details please refer to DEUTZ Application department or Local DEUTZ Dealer			

Engine

Model		F2M2011	F3M2011	F4M2011	BF4M2011
Rated PRP gross power	<i>kW</i>	13.6	21.4	31.1	41.0
Rated LTP gross power	<i>kW</i>	15.1	23.8	34.5	45.5
Rated PRP gross power	<i>HP</i>	18.2	28.7	41.6	54.9
Rated LTP gross power	<i>HP</i>	20.2	31.9	46.2	61.0
Speed governor		Mech G2	Mech G2	Mech G2	Mech G2
Number of cylinders		2	3	4	4
Engine configuration		IL	IL	IL	IL
Exhaust after treatment		None	None	None	None
Displacement	<i>ltr</i>	1.55	2.33	3.62	3.62
Bore/stroke	<i>mm</i>	94/112	94/112	94/112	94/112
Electrics	<i>V/dc</i>	12	12	12	12
Fuel specification		ASTM D975	ASTM D975	ASTM D975	ASTM D975

Generator

Brand		DEUTZ	DEUTZ	DEUTZ	DEUTZ
Model		ECP28-M/4 C*	ECP28-2L/4	ECP32-2S/4C*	ECP32-1M/4
Generator efficiency	<i>%</i>	89.5	89.9	88.7	90.5

Estimated Fuel Consumption

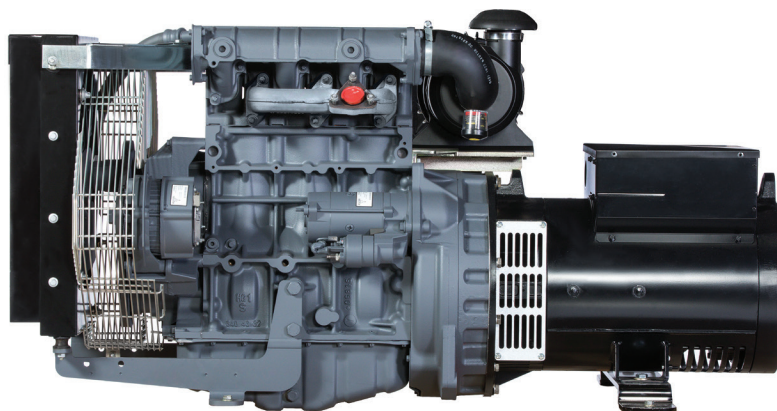
Specific Fuel Consump	<i>g/kW/h</i>	227	223	218	217
Fuel @ 75% duty cycle	<i>l/h</i>	3.1	4.70	6.6	8.80
Fuel @ 75% duty cycle	<i>USgal/h</i>	0.82	1.24	1.74	2.32

Emission Certification

EPA/CARB		Tier 2	Tier 2	Tier 2	Tier 2
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Weights and Dimension

Genset w/o panel dry	<i>kg</i>	337	403	497	518
Length	<i>mm</i>	1367	1443	1617.5	1690.5
Width	<i>mm</i>	642	642	616	627
Height	<i>mm</i>	762	762	780	807



Control Panels

DEUTZ generator sets come with the option of a stand-alone control panel, which includes the Dynagen TG350 control module. These panels are suitable for use in a wide variety of single genset applications.

- Stand-alone LOFA control box and Dynagen controller (TG350)
- Flyout Delphi Connector on rear
- All prewired internally complete with AC voltage wires terminated to 12 PIN Deutsch Connector on Rear of Panel; for sense wire (no AC current wiring available)
- 8x8 Aluflex™ enclosure completed with Bracket mount and Vibration isolators
- AC fuse block and fuses (600VAC Rated)
 - DC fuse holders and fuses
 - Terminal strips



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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