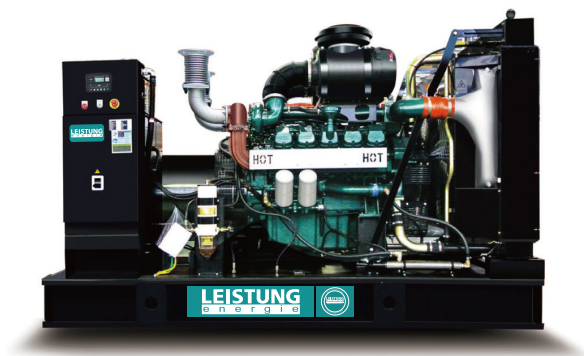


# D700D5 | INDUSTRIAL RANGE POWERED BY DOOSAN

**LEISTUNG**  
e n e r g i e



## POWER DEFINITION

PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

ESP: The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

## TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25 ° C Air Inlet Temperature, of a barometric pressure of 100 kPa (100 m A.S.L.), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

## TERMS OF USE

For the generating sets used indoors, where the acoustic pressure levels depend on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions.

You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.

SERVICE		PRP	EPS
POWER	kVA	630	700
POWER	kW	504	560
RATED SPEED	r.p.m	1500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	380/220 · 415/240	
RATED AT POWER FACTOR	Cos Phi	0,8	
EARTH PROTECTION		40HM	

## Generator Specification

 WATER-COOLED	 THREE PHASE FOUR WIRES	 50 HZ	 DIESEL	 DUAL-WALL FUEL TANK (Optional)
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## Weight And Dimensions



Dimension		Open	Silent
Length(L)	mm	3285	4812
Width(W)	mm	1640	1950
Height(H)	mm	2260	2515
Net Weight	Kg	4050	5555
Fuel Tank	L	700	860



## General Engine Data

Engine brand	DOOSAN	
Engine ref.	DP180LB	
Prime engine power	kWm	556
Standby engine power	kWm	612
Engine type	4-stroke diesel	
Governor type	Electronic	
Injection	Direct	
Aspiration	Turbo charging intercooled	
Number of cylinders and arrangement	10-V	
Bore and stroke	mm	128*142
Displacement	L	18.3
Cooling system	Water-cooled, fan	
Starting system	Electrical	



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter
- Dry air filter
- Radiator with pusher fan
- Electronic governor
- Hot parts protection
- Radiator water level sensor (Optional)
- Oil heater (Optional)
- Heavy duty air filter (Optional)

## Engine Specifications

### General Engine Data

Lube oil consumption with full load	0.5%-1% of fuel consumption	
Compression Ratio	15:1	
Engine oil capacity	L	34
Total coolant capacity	L	91
Air Filter	Type	Dry

### Fuel

Consumption @ 100% load ESP	L/H	149.5
Consumption @ 100% load PRP	L/H	136.4
Consumption @ 75% load PRP	L/H	103.8
Consumption @ 50% load PRP	L/H	71.2

## Alternator Specifications

### Alternator Specifications

Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Insulation	H class
Enclosure(according IEC-34-5)	IP23

### Alternator Specifications

Excitation system	Self-excited, brushless
Voltage regulator	AVR (Electronic)
No. of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- Self-excited and self-regulated
- IP23 protection
- H class insulation
- Alternator pre-heater (Optional)
- Winding temp. measuring instrument (Optional)
- PMG/AREP/MAUX (Optional)

## Application Data

### Fuel system

Fuel oil specifications	Diesel	
Standard fuel tank capacity (Open)	L	700
Standard fuel tank capacity (Silent)	L	860

### Air system

Intake air flow	L/s	600
Cooling air flow	L/s	11667

### Exhaust system

Maximum exhaust temperature	°C	562
Exhaust gas flow	L/s	1967
Maximum allowed back pressure	kPa	5.9

### Starting System

Starting power	kW	7
Recommended batter	Ah	120
Number of Batteries		2
Auxiliary voltage	Vdc	24V

## Genset version

- Steel chasis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- High mechanical strength
- Epoxy polyester powder coating
- Fuel tank drain plug
- Steel residential silencer - 20dbA attenuation
- Battery charger
- Dual-wall fuel tank (Optional)

This document is not contractual - The Leistung Energie Limited reserves the right to modify any of the characteristics stated in this document without notice, in a constant effort to improve the quality of its products. \*ISO 8528. .

Leistung Energie gensets are compliant with ISO 9001 and CE standard, which include the following directives:

·2006/42/EC Machinery safety.

·2006/95/EC Low voltage

·EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

### Standard reference Conditions

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

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.

## Control Panel Data

Monitoring system with microprocessor  
to control all the genset operation

Features of the Control Panel	Basic Model (Standard)	Advanced Model (Optional)
• Voltage between phases	○	○
• Voltage between neutral and phase	○	○
• Current intensities	○	○
• Frequency	○	○
• Apparent power [Kva]	○	○
• Active power [Kw]	○	○
• Reactive power [kVAr]	○	○
• Power factor	○	○
• Engine oil pressure	○	○
• Emergency stop	○	○
• Binary inputs	6/6	7/7
• Analog inputs	3	3
• 2x10A Current outputs	○	—
• Fuel level	○	○
• Engine water temperature	○	○
• Speed sensor	○	○
• Amf/Mrs	○	○
• Over current/ over load warning	○	○
• Short circuit warning	○	○
• Low fuel level warning	○	○
• Low oil pressure warning	○	○
• High water temperature warning	○	○
• Low engine water level warning	○	○
• Engine protection	○	○
• Alternator protection	—	★
• History file	150	350
• Genset high/low voltage warning	○	○
• Genset high/low frequency warning	○	○
• Engin over/under speed warning	○	○
• Starting error	○	○
• Check	○	○
• Automatic operation	○	○
• Manual operation		○
• Stop Button	○	○
• kW/kWh/Kva	○	○
• GSM/GPRS modem	★	★
• Remote screen	★	★
• Software for PC	★	★
Standard: ○	Optional: ★	Not Available: —