P16.5D5 I INDUSTRIAL RANGE POWERED BY PERKINS







kVA

kW

r.p.m

V

V

Cos Phi

POWER DEFINITION

PRP: Prime Power is abailanle 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 $^\circ$ C Air Intlet 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 indoor, where the acoustic pressure levels depends 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.



Generator Specification



THREE PHASE



SERVICE

POWER

POWER

RATED SPEED

STANDARD VOLTAGE

AVAILABLE VOLTAGES

DIESEL

PRP

15

12

EPS

16.5

13

1500

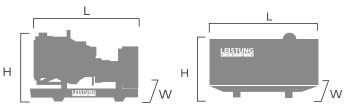
400/230

380/220 · 415/240

0,8

STACKABLE CANOPY

Weight And Dimensions



Dimension		Open	Silent
Length(L)	mm	1490	2020
Width(W)	mm	550	955
Height(H)	mm	1190	1150
Net Weight	Kg	425	795
Fuel Tank	L	85	60



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Engine Specifications

General Engine Data

General Engine Data		
Engine brand		Perkins
Engine ref.		403A-15G2
Engine type		4-stroke diesel
Governor type		Mech
Injection		Direct
Aspiration		Naturally Aspirated
Number of cylinders and arrangement		3-L
Bore and stroke	mm	84*90
Displacement	L	1.496
Cooling system		Water-cooled

Lube oil consumption with full load	0.5%-1% of fuel consumption	
Compression Ratio		22.5:1
Engine oil capacity	L	6.0
Total coolant capacity	L	8.6
Air Filter	Type Dry	
Fuel		
Consumption @ 100% load ESP	L/H	5.04
Consumption @ 100% load PRP	L/H	4.3
Consumption @ 75% load PRP	L/H	3.11
Consumption @ 50% load PRP	L/H	2.24

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter
- Dry air filter

З

0.8

4

Star-serie

H class

IP23

- Radiator with pusher fan
- Electronic govornor
- Hot parts protection
- Moving parts protection
- Water jacked heater (Optional)
- Radiator water level sensor (Optional)
- Oil heater (Optional)
- Heavy duty air filter (Optional)

Alternator Specifications

Self-excited, brushless
AVR (Electronic)
Single bearing
Flexible disc
Standard (Vacuum impregnation)

Enclosure(according IEC-34-5)

Winding Connections (standard)

Alternator Specifications

Number of phase

Poles

Insulation

Power factor (Cos Phi)

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

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Application Data

Fuel system		
Fuel oil specifications		Diesel
Standard fuel tank capacity (Open)	L	85
Standard fuel tank capacity (Silent)	L	60

Air system		
Intake air flow	L/s	16.6
Cooling air flow	L/s	TBD

Maximum exhaust temperature	°C	470
Exhaust gas flow	L/s	36.6
Maximum allowed back pressure	kPa	10.2

Exhaust svstem

Starting System		
Starting power	kW	2
Recommended batter	Ah	60
Number of Batteries		1
Auxiliary voltage	Vdc	12V

Genset version

- Steel chasis
- Emergency stop button
- Anti-vibration shock absorbers
- Trailer type (Optional)
- 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
- Stackable canopy design

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.

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Control Panel Data

Features of the Control Panel	Basic Model (Standard)	Advanced Model (Optional)
Voltage between phases	0	0
Voltage between neutral and phase	0	0
Current intensities	0	0
• Frequency	0	0
• Apparent power (Kva)	0	0
Active power (Kw)	0	0
• Reactive power (kVAr)	0	0
Power factor	0	0
Voltage between phases	0	0
• Emergency stop	0	0
• Binary inputs	6/6	7/7
• Analog inputs	3	3
• 2x10A Current outputs	0	-
• I/O Configuration	0/0	0/0
• D+ Function	0	0
• Speed sensor	0	0
• Amf/Mrs	0/0	0/0
• GCB/MCB	0/0	0/0
• 3ph voltage measurement Gen./Mains	0/0	0/0
• 3ph current measurement	0	0
• kW/kWh/Kva	0	0
• Engine reading	0	0
Engine protection	0	0
Alternator protection	0	0
Earth current protection	—	*
• History file	150	350
• RTC/Battery	0/—	0/0
• PLC	-	-
• 4G	*	—
• Airgate	_	*
• ECU CAN	0	0
• MODBUS	*	*
MODBUS IP	*	*
• SNMP	-	*
SNMP TRAPS	-	—
• RS232	*	*
• RS485	*	*
• GSM/GPRS modem	*	*
Remote screen	*	*
• Software for PC	*	*
Standard: O Op	ntional: * Not Av	ailable: —