DIESEL
POWER STATION - PDE 44

www.pca-power.cz

WORK SPECIFICATION



with engines

DEUTZ



PCA POWER is a dynamic company that has become the leading manufacturer of diesel power plants in Turkey and is ranked among the top genset manufacturers in the world.

The main business of the company is focused on the design, manufacture, installation and after-sales service of diesel generator sets ranging from 3 kVA to 5600 kVA. PCA POWER generator sets are equipped with modern, reliable, high-performance industrial diesel engines from the world's leading companies:

Perkins · Cummins · RICARDO · DEUTZ · Baudouin · DOOSAN · SDEC

PCA POWER - ISO 9001 Quality Certified Company

PCA Power generating sets comply with EU requirements, including the following directives:

- TR CU 004/2011 "On the safety of low-voltage equipment"
- TR CU 020/2011 "Electromagnetic compatibility of technical means"
- 2014/35/UE. 2014/30/EU Electrical equipment designed to be used within certain voltage limits.
- ISO 10002:2004 Quality management. Consumer Satisfaction
- ISO 14001:2004, ISO 10002:2004, ISO 9001:2008
- EN ISO 12100:2010, EN60204-1:2006/AC:2010, EN ISO8528-13:2016.
- SGS Mashinery Derective 2006/42/EC
- OHSAS 18001:2007
- OHSAS 18001:2007

ISO · CE · TSE · TURK PATENT

PCA Power Co., Ltd Main office:
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Representative office in the Czech Republic:
Prague



STANDARD EQUIPMENT

ENGINE MANUFACTURER	Germany	DEUTZ
MAXIMUM GENERATOR POWER	kVA kW	44 35,2
RATED POWER OF THE GENERATOR	kVA kW	40 32
RATED ENGINE POWER	kW	44
ROTATION FREQUENCY	rpm./min	1500
GENERATOR OUTPUT VOLTAGE	Volt	400/230

- Engine heating
- Liquid cooling
- Three-phase power
- Fuel heating
- Diesel fuel
- 50 Hz Operating frequency

PCA Power reserves the right to change any product specifications without prior notice.
Weights and dimensions are for standard products. Illustrations may show optional equipment.
The technical data given in this catalog are current at the time of printing.
The illustrations and images are indicative only and may not exactly match the product.
The industrial design is protected by a patent.

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ENGINE SPECIFICATIONS | 1500 R.P.M.

ENGINE

Manufacturer		DEUTZ
Model		BFM3T
Rated power	kW	44
Cylinder arrangement		4, In-line
Engine displacement	l.	3.2
Air intake system		Naturally aspirated
Bore / Stroke	mm	98x105
Compression ratio	l.	18,5:1
Speed controller		Electrical
Injection system		straight
Cooling system		liquid
Electrical system	Volt	24

REFILLING CAPACITIES

Oil system volume	l.	7.5
Cooling system volume	l.	5

FUEL SYSTEM

Fuel tank	l.	110
Autonomous operation at 100% load	h.	10.7

FUEL CONSUMPTION

Fuel consumption 100%	l/h	10.3
Fuel consumption 75%	l/h	7.7
Fuel consumption 50%	l/h	5.1



SPECIFICATIONS OF THE GENERATOR | REAL WATT

Standby power	kVA / kW	44 / 35,2
Prime power	kVA / kW	40 / 32
Manufacturer		REAL WATT
Model		RW184J
Output voltage	Volt	400/230
Degree of protection		H
Insulation class		IP23
Number of phases		3
Power quantity		0,8

Number of poluses		4
Frequency Hz	Hz.	50
Number of support bearings		single bearing
Voltage stabilizer		ATS
Voltage regulator		+ - 0,5%
Alternator type		brushless
Short circuit current		300% (10 sec.)
Type of connection		Asterisk
Overload	1 hour	110%

WEIGHT AND DIMENSIONS







		on the frame	In a soundproof casing	In block container
Length (L)	mm	1700	2160	3000
Width (W)	mm	800	950	2400
Height (H)	mm	1190	1250	2400
Weight	kg.	750	1100	2400

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PCA POWER Quality Generator
THE POWER OF CHOICE

CONTROL PANEL / ATS

CONTROLLER D-300

DATAKOM



DESCRIPTION

The D-300 Series is a series of new remote controls that combines versatility and connectivity with rugged, cost-effective design. The module complies with the most stringent standards for safety in the world, electromagnetic compatibility, vibration and environmental protection for industrial electrical installations, and many indicators and surpasses them. Convenient software update via a USB port. Windows based PC software allows monitoring and programming via USB, serial interface and GPRS protocol. It is possible to control and manage an unlimited number of diesel generators using a central PC based on Rainbow Scada software.

FUNCTIONAL CAPABILITIES

- Automatic transfer of load without power interruption in the event of a power failure to a diesel generator (and vice versa) using AMF or ATS
- Remote start control
- Manual start control
- Engine management
- Remote control and display unit
- Voltage waveform display and current
- Analysis of voltage and current distortion
- Current transformers on the diesel generator or load side.

ATS (AUTOMATIC RESERVE) GENERAL SPECIFICATIONS

PCA-Power supplies a complete line of switches for mains standby operation. Robust sheet steel enclosure with hinged and full-width locking front door, accommodating the following equipment:



3 poles
380/400 V. (3 phases)
Switching with a contactor
Switching with motorized CB
Terminals
Copper Bar
Panel for wall mounting IP42
Floor panel IP42 *

* Depending on the total group power, it can be used repeatedly

POSSIBILITIES:

Adjustment accuracy
4 pole
Setting the voltage of the controlled current
Setting the ramp up time
Automatic voltage regulator
Underfrequency protection

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