



with engines



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:



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 Machinery Directive 2006/42/EC
- OHSAS 18001:2007
- OHSAS 18001:2007



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STANDARD EQUIPMENT

ENGINE MANUFACTURER	Germany	DEUTZ
MAXIMUM GENERATOR POWER	kVA	33
	kW	26,4
RATED POWER OF THE GENERATOR	kVA	30
	kW	24
RATED ENGINE POWER	kW	32
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.



ENGINE SPECIFICATIONS | 1500 R.P.M.

ENGINE

Manufacturer	DEUTZ	
Model	BFM3 G2	
Rated power	kW	32
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.	97
Autonomous operation at 100% load	h.	12.5

FUEL CONSUMPTION

Fuel consumption 100%	l/h	7.7
Fuel consumption 75%	l/h	5.8
Fuel consumption 50%	l/h	3.9



SPECIFICATIONS OF THE GENERATOR | REAL WATT

Standby power	kVA / kW	33 / 26,4
Prime power	kVA / kW	30 / 24
Manufacturer	REAL WATT	
Model	RW184G	
Output voltage	Volt	400/230
Degree of protection	H	
Insulation class	IP23	
Number of phases	3	
Power quantity	0,8	

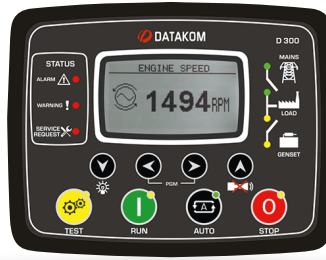
Number of poles	4	
Frequency Hz	Hz.	50
Number of support bearings	single bearing	
Voltage stabilizer	ATS	
Voltage regulator	+ - 0,5%	
Alternator type	brushless	
Short circuit current	300% (10 sec.)	
Type of connection	Asterisk	
Overload	1 hour	110%

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.	700	1050	2350

CONTROLLER D-300



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