

## DEUTZ

### Technical Specifications



#### ENGINE

- DEUTZ series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air TO AIR cooled /turbocharged & air to water COOLED
- Direct injection
- Electronic governor system
- 24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extention pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

#### QUALITY STANDARD

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, TS ISO 8528, TS EN ISO 3744, TS EN ISO 3746, TS EN 60034-1, TS EN 60204-1, TS EN 60335-1, TS EN 61439-1, EN 61000, TS EN ISO12100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO10002:2006 management system certificates from Kiwa & MEYER, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

#### ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid.

#### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit braker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water seperator filter
- PMG warning system

#### CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

#### AUTOMATIC CONTROL PANEL

- LCD display screen
- Hardware and materials needed
- Battery charger
- USB port & RS-485 output

#### GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Over current load
- Low oil pressure
- High & low genset voltage
- High & low engine speed
- Start/stop failure
- Low radiator water level



Easy maintenance canopy design



Refilling from the outside of the canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



# DEUTZ Series

## Diesel Generator Sets

### DEUTZ Series Diesel Generator Sets 165-400 kVA

MODEL				E DZ XX 0165	E DZ XX 0275	E DT XX 0290	E DT XX 0385	E DT XX 0400
GROUP	GEN-SET POWER	STAND BY	kVA	165	275	290	385	400
			kW	132	220	232	308	320
		PRIME	kVA	150	250	264	350	364
			kW	120	200	211	280	291
	CANOPY DIMENSION (W x L x H) mm			1100x3220x1690	1400x3205x2595	1400x3205x2595	1600x3250x2510	1600x3250x2510
	CANOPY WEIGHT kg			2036	2826,25	2826,25	4084	4084
	OPEN DIMENSION (W x L x H) mm			1100x2770x1690	1400x2750x2265	1400x2750x2265	1600x2995x2240	1600x2995x2240
	OPEN WEIGHT			1781	2424,75	2424,75	3527	3527
ENGINE	BRAND			DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ
	TYPE			WP6DI52E200	BFGMID15-LA GA	BFGMID15C-LA GIA	BFGMID15CP-LA G	BFGMID15CP-LA G
	POWER	STAND BY	kW	152	231	250	365	365
		PRIME	kW	138	220	227,2727273	328	328
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			6,75	11,906	11,906	11,906	11,906
	NUMBER OF CYLINDERS			6 IN LINE	6 V	6 V	6 V	6 V
	BORE x STROKE (mm x mm)			105 x 130	132 x 145	132 x 145	132 x 145	132 x 145
	COMPRESSION RATIO			18 : 1	16,5:1	16,5:1	16,5:1	16,5:1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		32,64	48,53	53,2	76,53	76,53
		%75 PRIME POWER		24,56	36,4	39,9	57,4	57,4
		%50 PRIME POWER		16,65	24,26	26,6	38,25	38,25
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			16	38	38	38	38	
TOTAL COOLANT CAPACITY (lt)			28	62	62	67	67	
FUEL TANK CAPACITY (lt)			275	575	575	770	770	

Emsa reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.



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