

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 40-150 kVA

MODEL				E DZ XX 0040	E DZ XX 0060	E DZ XX 0072	E DZ XX 0082	E DZ XX 0110	E DZ XX 0150
GROUP	GEN-SET POWER	STAND BY	kVA	40	60	72	82	110	150
			kW	32	48	57,6	65,6	88	120
		PRIME	kVA	36	55	65	75	100	136
			kW	29	44	52	60	80	109
	CANOPY DIMENSION (W x L x H) mm			1000x2300x1420	1000x2300x1420	1000x2600x1410	1000x2600x1410	1100x3100x1690	1100x3220x1690
	CANOPY WEIGHT kg			1009,25	1147,25	1458,3	1504,3	1815	1978
	OPEN DIMENSION (W x L x H) mm			1000x1900x1420	1000x1900x1420	1000x2200x1410	1000x2200x1410	1100x2600x1690	1100x2770x1690
	OPEN WEIGHT			834,25	972,25	1261,3	1307,3	1562	1723
ENGINE	BRAND			DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ
	TYPE			D226B-3D	TD226B-3D	WP4D66E200	WP4D66E200	WP4D108E200	WP6D140E200
	POWER	STAND BY	kW	36,5	53	86	86	108	140
		PRIME	kW	32	48	78	78	94	128,6
	SPEED (rpm)			1500	1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4	4
	DISPLACEMENT (lt)			3,12	3,12	4,5	4,5	4,5	6,75
	NUMBER OF CYLINDERS			3 IN LINE	3 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			105 x 120	105 x 120	105 x 130	105 x 130	105 x 130	105 x 130
	COMPRESSION RATIO			16,4:1	15,5:1	18 : 1	18 : 1	18 : 1	18 : 1
	GOVERNOR TYPE			MECHANIC / ELECTRONIC	MECHANIC / ELECTRONIC	MECHANIC / ELECTRONIC	MECHANIC / ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			NATURAL	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		7,56	12,35	16,4	18,93	22,29	30,4
		%75 PRIME POWER		5,69	9,26	12,33	14,23	16,68	23,1
		%50 PRIME POWER		3,92	6,54	9,7	10,11	11,38	15,9
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			7,25	7,25	10	10	10	16	
TOTAL COOLANT CAPACITY (lt)			28	28	15,3	15,3	16,3	28	
FUEL TANK CAPACITY (lt)			101	101	139	139	275	275	

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