

SDEC

Technical Specifications



ENGINE

- SDEC series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled /turbocharged & air to water charge 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 extension 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 breaker (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 separator 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



SDEC Series

Diesel Generator Sets

SDEC Series Diesel Generator Sets 200-330 kVA

MODEL				E SD XX 0200	E SD XX 0220	E SD XX 0275	E SD XX 0290	E SD XX 0330	
GROUP	GEN-SET POWER	STAND BY	kVA	200	220	275	290	330	
			kW	160	176	220	232	264	
		PRIME	kVA	182	200	250	265	300	
			kW	145	160	200	212	240	
	CANOPY DIMENSION (W x L x H) mm				1100x3220x1790	1200x3800x2490	1200x3800x2490	1200x3800x2490	1400x3705x2615
	CANOPY WEIGHT kg				2139,6	2368,6	2572	2680	3992,7
	OPEN DIMENSION (W x L x H) mm				1100x2770x1690	1200x3100x2490	1200x3100x2490	1200x3100x2490	1400x3450x2250
	OPEN WEIGHT				1884,6	2051	2254	2362	3547
ENGINE	BRAND				SDEC	SDEC	SDEC	SDEC	SDEC
	TYPE				SC7H23002	SC7H25002	SC9D31002	SC9D34002	SC10E38002
	POWER	STAND BY	kW	170	185	228	255	280	
			PRIME	kW	154	168,2	207,3	231,8	254,5
	SPEED (rpm)				1500	1500	1500	1500	1500
	CYCLE				4	4	4	4	4
	DISPLACEMENT (lt)				6,44	6,44	8,82	8,82	11,8
	NUMBER OF CYLINDERS				6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)				105 x 124	105 x 124	114 x 144	114 x 144	128 x 135
	COMPRESSION RATIO				16 : 1	16 : 1	18 : 1	16,5 : 1	17 : 1
	GOVERNOR TYPE				ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION				TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	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			36,0	39,3	50,6	54,1	60,8
		%75 PRIME POWER			26,8	29,1	38,2	40,8	49,4
%50 PRIME POWER			17,5	19,4	26,3	27,3	32,1		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)				18	18	19	25	41	
TOTAL COOLANT CAPACITY (lt)				29	28,6	40	42	73,2	
FUEL TANK CAPACITY (lt)				275	275	360	360	880	

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