

## 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 660-1000 kVA

MODEL				E SD XX 0660	E SD XX 0715	E SD XX 0800	E SD XX 0860	E SD XX 1000
GROUP	GEN-SET POWER	STAND BY	kVA	660	715	800	860	1000
			kW	528	572	640	688	800
		PRIME	kVA	600	650	725	785	910
			kW	480	520	580	628	728
	CANOPY DIMENSION (W x L x H) mm			1700x4200x2715	1700x4200x2715	N/A	N/A	N/A
	CANOPY WEIGHT kg			6716,5	6756,5	N/A	N/A	N/A
	OPEN DIMENSION (W x L x H) mm			1700x3750x2050	1700x3750x2050	N/A	N/A	N/A
	OPEN WEIGHT			5992	6032	N/A	N/A	N/A
ENGINE	BRAND			SDEC	SDEC	SDEC	SDEC	SDEC
	TYPE			SC27675502	SC27683002	SC27690002	SC33W99002	SC33W115002
	POWER	STAND BY	kW	555	610	662	726	860
		PRIME	kW	504	554	602	660	782
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			26,6	26,6	26,6	32,8	32,8
	NUMBER OF CYLINDERS			12 V	12 V	12 V	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			135 x 155	135 x 155	135 x 155	180 x 215	180 x 215
	COMPRESSION RATIO			16 : 1	16 : 1	16 : 1	15 : 1	15 : 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		126,0	141,0	148,8	163,7	193,5
		%75 PRIME POWER		95,3	106,7	111,5	123,9	146,3
		%50 PRIME POWER		66,3	74,1	76,7	84,3	100,1
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			65	65	62	75	75	
TOTAL COOLANT CAPACITY (lt)			147	147	N/A	N/A	N/A	
FUEL TANK CAPACITY (lt)			1272	1272	N/A	N/A	N/A	

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