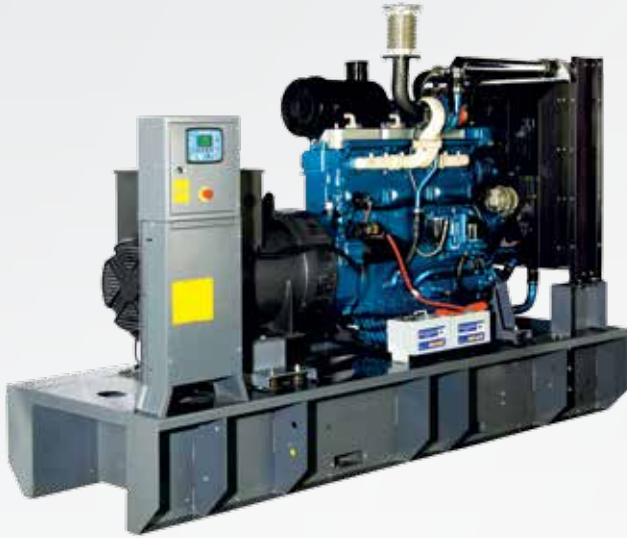


EMSA 220-460 kVA

Technical Specifications



ENGINE

- EMSA series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged / turbocharged & air to air 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 gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are CE certified in accordance with the requirements of 2000/14/EC, noise emission directive.

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

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 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

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

GEN-SET SAFETY PROTECTION & ALARMS

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



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



EMSA Series

Diesel Generator Sets

EMSA Series Diesel Generator Sets 220-460 KVA

MODEL			E SD XX 0220	E SD XX 0285	E SD XX 0330	E SD XX 0385	E SD XX 0460	
GROUP	GEN - SET POWER	STAND BY	kVA	220	285	330	385	460
			kW	176	228	264	308	368
		PRIME	kVA	200	260	300	350	420
			kW	160	208	240	280	336
	CANOPY DIMENSION (W x L x H) mm			1150 x 3820 x 2460	1150 x 3820 x 2460	1400 x 3710 x 2550	1400 x 3710 x 2550	1400 x 3710 x 2550
	CANOPY WEIGHT kg			2600	2750	2910	3460	3530
	OPEN DIMENSION (W x L x H) mm			1150 x 3340 x 2400	1150 x 3340 x 2400	1400 x 3450 x 2500	1400 x 3450 x 2500	1400 x 3450 x 2500
	OPEN WEIGHT kg			2170	2320	2480	2830	2900
ENGINE	BRAND			EMSA SHANGHAI DIESEL	EMSA SHANGHAI DIESEL	EMSA SHANGHAI DIESEL	EMSA SHANGHAI DIESEL	EMSA SHANGHAI DIESEL
	TYPE			6135AZD-3	6135AZLD	SC13G355D2	SC13G420D2	SC15G500
	POWER	STAND BY	kW	190	245	284	329	393
		PRIME	kW	173	223	258	299	357
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			12,90	12,90	13,31	13,64	14,16
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE AND STROKE (mm x mm)			135 X 150	135 X 150	135 X 155	135 X 160	135 x 165
	COMPRESSION RATIO			16:1	16:1	14,8:1	16,5 : 1	15,55:1
	GOVERNOR TYPE			ELECTRONIC				
	INDUCTION			TURBOCHARGED	TURBOCHARGED & AIR TO AIR CHARGE COOLED			
	COMBUSTION SYSTEM			DIRECT				
	COOLING SYSTEM			WATER				
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		44,72	57,75	66,72	77,51	94,72
		75% OF PRIME POWER		33,54	43,31	50,04	58,13	71,04
		50% OF PRIME POWER		22,36	28,87	33,36	38,75	47,36
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			25	25	40	40	35	
TOTAL COOLANT CAPACITY (lt)			46	49	53	60	61	
FUEL TANK CAPACITY (lt)			380	580	580	750	775	

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

