DEUTZ powered
Diesel Generator Sets

EMSA GENERATOR®

35 - 175 kVA

Technical Specifications

ENGINE

* 4 stroke, water-cooled, direct injection fuel system
* Mechanical-electronic governor system
* Wet type replacable cylinder liners
* 12 Volt (35-70 kVA) and 24 Volt D.C (110-175 kVA) starter and charge alternator
* Replacable air filter
* Tropical radiator up to 50°C ambient temperature
* Flexible fuel pipes and oil discharging valve
* Industrial type exhaust silencer
* Lead Acid type batteries
* Heater (for automatic models)
* User and maintenance hand book and electrical wiring diagrams

QUALITY STANDARD

* Generators used in Emsa generating sets conform to the following regulatory standarts; VDE 0530, BSE 4999, BS 5000, IEC 34. All of our products have been manufactured according to the standards of ISO 9001:2008, TS ISO 8528-5, TS, EN 12601, ISO 14000, ISO 18000, GOST-R, AQA-MEYER Quality Management system certified by AQA International.

EXTRA EQUIPMENTS

* Start switch
* Fuel level indicator
* Charge Ampermeter
* Thermic magnetic circuit breaker (for automatic models)
* Residential type exhaust silencer
* Soundproof canopy
* Mobile trailer
* Synchronization panel
* 4 Pole ATS
* Control panel with LCD screen

CONTROL PANEL

* Operation hourmeter
* Emergency stop button
* Charge indicator
* Battery charge equipment
* Remote start by RS 232

ENGINE PROTECTION INSTRUMENTS AND ALARMS

* High caolant temperature
* Low oil pressure
* Overspeed and underspeed
* Low radiator water level
* Extreme current
* High and low battery voltage
* High and low generator voltage and frequency

FRAME

* Steel frame with antivibration mounts
* Frame mounted daily fuel tank

ALTERNATOR

*Brushless, single bearing, 4 poles, H type insulation, IP 21-23 projection standard, self-excited, self-regulated, equipped with automatic voltage regulator

SOUND PROOF CABIN

* Moduler desinged canopy parts
* Parts are assembled without welding
* Easy lifting
* Emergency stop button installing outside of canopy
* Exhaust silencer installing on the canopy or different section of cabin

TSE CE www.emsa.gen.tr

aqa INTERNATIONAL MEYER TÜRKAK

ISO 9001:2008 REGISTERED COMPANY

DEUTZ TECHNICAL SPECIFICATIONS 231 / 400V - 50Hz.

	Model			ED 35	ED 52	ED 60	ED 70	ED 110	ED 120	ED 150	ED 167	ED 175
GROUP	Power	Stand by	kVA	35	52	60	70	110	120	150	167	175
			kW	28	41.6	48	56	88	96	120	133.6	140
		Prime	kVA	31.8	47.3	54.5	63.6	100.0	109.1	136.4	151.8	159.1
			kW	25.5	37.8	43.6	50.9	80.0	87.3	109.1	121.5	127.3
	Dimension (w/l/h) mm			1070x2300x1470	1070x2750x1670	1070x2750x1670	1070x2750x1670	1120x3000x1900	1120x3000x1900	1120x3000x1900	1120x3000x1900	1120x3000x1900
	Weight with Cabin kg			1000	1160	1160	1280	1650	1650	1750	1800	1800
	Gross Size (enxboyxyükseklik) mm			1000x1800x1290	1000x1870x1310	1000x1870x1310	1000x1990x1730	1050x2470x1780	1050x2470x1780	1050x2500x1780	1050x2560x1780	1050x2560x1780
	Gross Weight kg			750	890	890	1010	1360	1360	1450	1500	1500
DIESEL ENGINE	Brandname			DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ	DEUTZ
	Type			D226-3	TD226B-3	TD226B-3	TD226B-4	TD226B-6	TD226B-6	TBD226B-6	TBD226B-6	TBD226B-6D5
	Engine Power	Stand by	kW	33	55.2	55.2	63.6	106.7	106.7	147.0	147.0	154.0
		Prime	kW	30.0	50.2	50.2	60.0	97.0	97.0	133.6	133.6	140.0
		Continuous	kW	30	45	45	60	90	90	120	120	132
	(d/d) / rpm			1500	1500	1500	1500	1500	1500	1500	1500	1500
	Cycle			4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
	Total displacement (L)			3,117	3,117	3,117	4,156	6,234	6,234	6,234	6,234	6,234
	Number of cylinder and orientation			3 Single Line	3 tek sıra	3 tek sıra	4 tek sıra	6 tek sıra	6 tek sıra	6 tek sıra	6 tek sıra	6 tek sıra
	Bore x Stroke (mm x mm)			105x120	105x120	105x120	105x120	105x120	105x120	105x120	105x120	105x120
	Governor			16,4:1	15,5:1	15,5:1	15,5:1	15,5:1	15,5:1	15,5:1	15,5:1	15,5:1
	Governor			Mechanic / Electronic	Mechanic / Electronic	Mechanic / Electronic	Mechanic / Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	Induction System			NATUREL	Turbo Charged	Turbo Charged	Turbo Charged	Turbo Charged	Turbo Charged	Turbo Charged Intercooled	Turbo Charged Intercooled	Turbo Charged Intercooled
	Injection			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
	Direction of rotation			ANTICLOCK-WISE VIEWED TOWARDS FLYWHEEL								
	Cooling Method			WATER COOLED, REPLACABLE WET TYPE LINERS								
	Cooling	Full load		8.10	11.25	12.98	14.97	22.48	24.53	28.49	31.72	34.55
	(l/ h)	%50 yükte		4.05	5.63	6.49	7.49	11.24	12.26	14.24	15.86	17.28
	Fuel Tank Capacity (l/ h)			8 HOURS CAPACITY AS FOR FULL LOAD								
	Lub Oil Capacity (l)			7.25	7.25	7.25	9	13	13	13	13	13
	Lub Water Capacity (l)			12	12	12	12	16,5	16,5	22,5	22,5	22,5
ALTERNATOR	Power	Stand by	kVA	35	52	60	70	110	120	150	167	175
			kW	28	42	48	56	88	96	120	134	140
	Regulation			±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1
	Frequency (Hz)			50	50	50	50	50	50	50	50	50
	Revolution Per Min. (rpm)			1500	1500	1500	1500	1500	1500	1500	1500	1500
	Short Circuit Current			%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)	%300 (0,5 sn)
	Insulation			H	H	H	H	H	H	H	H	H
	Protection			IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23
	Efficency (%)			85	87	87	88	90	90	91	91	91
	Overloading			1 HOUR %110 - 2 MINUTE %150								

All datas can be changed by EMSA without giving any information.

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