

PERKINS

Diesel Generator Sets



10 - 165 kVA

Technical Specifications

ENGINE

- * 4 stroke, water-cooled, direct/indirect injection fuel system
- * Mechanic governor system
- * Wet type replacable cylindir liners
- * 12-24 Volt 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 (electronic type)
- * 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 BOX

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

ENGINE PROTECTION INSTRUMENTS AND ALARMS

- * High coolant temperature
- * Low oil pressure
- * Overspeed and underspeed
- * Low radiator water level
- * Over 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



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PERKINS TECHNICAL SPECIFICATIONS 10-165kVA-50Hz.

MODEL				EP10	EP15	EP23	EP30	EP33	EP49	EP66	EP71	EP88	EP94	EP103	EP112	EP155	EP165	
GROUP	GEN-SET POWER	STAND-BY	KVA	10	14.5	22.1	30	33	49.6	66	71.5	88	94	103	112	155	165	
			KW	8	11.6	17.7	24	26.4	39.7	52.8	57.2	70.4	75.2	82.5	89.6	124	132	
		PRIME	KVA	9	13.1	20	27.5	30	45	60	65	80	85	93	102	140.5	150	
			KW	7.2	10.4	16	22	24	36	48	52	64	68	74.5	81.4	112.5	120	
	DIMENSION WEIGHT	W/L/H (mm) kg	OPEN	800 x 1300 x 1585	800 x 1300 x 1585	800 x 1339 x 1585	1000 x 1650 x 1610	1000 x 1650 x 1610	1000 x 1741 x 1610	1000 x 1650 x 1610	1000 x 1880 x 1870	1000 x 1920 x 1870	1050 x 2285 x 1960	1050 x 2285 x 1960	1050 x 2100 x 1960	1050 x 2300 x 2050	1050 x 2300 x 2050	
				320	405	470	720	725	820	825	910	930	1325	1360	1200	1390	1390	
	DIMENSION WEIGHT	W/L/H (mm) kg	CANOPY	870 x 2120 x 1582	870 x 2120 x 1582	870 x 2120 x 1582	1070 x 2300 x 1470	1070 x 2300 x 1470	1070 x 2750 x 1670	1070 x 2750 x 1670	1070 x 2750 x 1670	1070 x 2750 x 1670	1070 x 2750 x 1670	1070 x 2750 x 1670	1070 x 2750 x 1670	1120 x 3000 x 1900	1120 x 3000 x 1900	
				450	535	600	990	995	1090	1100	1150	1200	1575	1610	1500	1700	1700	
	DIESEL ENGINE	BRAND		PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
		TYPE		403D-11G	403D-15G	404D-22G	1103A-33G	1103A-33G	1103A-33TG1	1103A-33TG2	1104A-44TG1	1104A-44TG2	1006TG1A	1006TG1A	1104C-44TAG2	1006TAG	1006TAG2	
STAND BY PRIME		KW	9.3	13.3	20.3	30.4	30.4	45.6	59.3	64.3	79.1	91.5	91.5	99.5	137.5	143		
	KW	8.4	12	18.4	27.7	27.7	41.3	53.8	58.4	71.9	83	83	90.1	125	129.3			
ENGINE	ENGINE SPEED (rpm)			1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
	CYCLE			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	DISPLACEMENT (lt)			1.131	1.496	2.216	3.3	3.3	3.3	4.4	4.4	5.99	5.99	4.4	5.99	5.99		
	NUMBER OF CYLINDERS			3 IN LINE	3 IN LINE	4 IN LINE	3 IN LINE	3 IN LINE	3 IN LINE	3 IN LINE	4 IN LINE	4 IN LINE	6 IN LINE	6 IN LINE	4 IN LINE	6 IN LINE	6 IN LINE	
	BORE X STROK (mm x mm)			77 X 81	84 X 90	84 X 100	105 X 127	105 X 127	105 X 127	105 X 127	105 X 127	105 X 127	100 X 127	100 X 127	105 X 127	100 X 127	100 X 127	
	COMPRESSION RATIO			23:01	22,5 :1	23,3 : 1	19,25 : 1	19,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	16,0 : 1	16,0 : 1	18,2 : 1	17:01	17:01	
	GOVERNOR TYPE			MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	MECHANICALLY	ELECTRONIC	MECHANICALLY	ELECTRONIC	
	ASPIRATION			NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED
	COMBUSTION SYSTEM			INDIRECT	INDIRECT	INDIRECT	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION
	COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	FUEL CONSUMPTION	100%	lt/h	2.60	3.60	5.40	6.50	7.10	10.70	13.90	14.80	18.70	19.90	21.80	22.60	33.30	41.00	
		50%	lt/h	1.50	2.00	2.90	3.70	3.90	5.70	7.20	8.00	9.70	10.40	11.40	11.80	16.90	20.00	
	TOTAL LUBRICATION SYSTEM CAPACITY(lt)			4.9	4.9	10.6	7.9	7.9	7.9	7.9	8	8	16.1	16.1	8	19	19	
	TOTAL COOLANT CAPACITY (lt)			5.21	6	7	10.2	10.2	10.2	10.2	13	13	27.7	27.7	12.6	37.22	41	
	ALTERNATOR	VOLTAGE REGULATION			(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1
VOLTAGE (V.)			400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
FREQUENCY (Hz.)			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
ALTERNATOR SPEED (rpm)			1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
INSULATION SYSTEM			H	H	H	H	H	H	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	IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23	IP 21/23	
EFFICIENCY (P.F.=0,8) (%)			80.5	82.1	85.1	86.3	86.5	88.2	88.8	89.9	90.2	90.2	90.3	90.3	91.7	92.3		
OVERLOAD			1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150		

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PERKINS

Diesel Generator Sets



200 - 700 kVA

Technical Specifications

ENGINE

- * 4 stroke, water-cooled, direct injection fuel system
- * Electronic governor system
- * Wet type replacable cylindir liners
- * 24 Volt D.C 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

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EXTRA EQUIPMENTS

- * Start switch
- * Fuel level indicator (electronic type)
- * 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 BOX

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

ENGINE PROTECTION INSTRUMENTS AND ALARMS

- * High coolant temperature
- * Low oil pressure
- * Overspeed and underspeed
- * Low radiator water level
- * Over 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



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PERKINS TECHNICAL SPECIFICATIONS 200-700kVA-50Hz.

MODEL			EP200	EP229	EP250	EP275	EP330	EP400	EP450	EP500	EP550	EP630	EP660	EP700	
GROUP	GEN-SET POWER	STAND-BY	KVA	204	229	250	275	330	400	450	500	550	630	660	700
			KW	163.2	183	200	220	264	320	360	400	440	504	528	560
		PRIME	KVA	184	208	228	250	300	350	400	455	500	600	600	650
			KW	147.3	166	182	200	240	280	320	364	400	480	480	520
	DIMENSION WEIGHT	W/L/H (mm) kg	OPEN	1050 x 2300 x 2050	1150 x 3000 x 2148	1150 x 3000 x 2150	1150 x 3000 x 2150	1250 x 3000 x 2585	1250 x 3000 x 2585	1250 x 3000 x 2585	1250 x 3530 x 2578	1250 x 3530 x 2578	1875 x 3500 x 2750	1875 x 3500 x 2750	1875 x 3500 x 2750
				1760	1760	1940	1940	3300	3500	3500	3600	3600	3850	3850	4800
	DIMENSION WEIGHT	W/L/H (mm) kg	CANOPY	1120 x 3000x1900	1120 x 3400 x 2310	1120 x 3400 x 2310	1120 x 3400 x 2310	1690 x 4000 x 2820	1690 x 4000 x 2820	1690 x 4000 x 2820	1690 x 4000 x 2820	1690 x 4000 x 2820	1875 x 4750 x 3050	1875 x 4750 x 3050	1875 x 4750 x 3050
				2100	2100	2370	2370	3950	4150	4150	4250	4250	5260	5260	6800
	DIESEL ENGINE	BRAND		PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
		TYPE		1106C-E66TAG4	1306C-E87TAG3	1306C-E87TAG4	1306C-E87TAG6	2206A-E13TAG2	2206A-E13TAG2	2206A-E13TAG3	2506A-E15TAG1	2506A-E15TAG2	2806A-E18TAG1A	2806A-E18TAG1A	2806A-E18TAG2
STAND BY PRIME		KW	175.5	199	217	239	348	348	391	434	478	574	574	609	
	KW	158.4	180	198	217	304	304	348	396	435	522	522	565		
ENGINE SPEED (rpm)			1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
CYCLE			4	4	4	4	4	4	4	4	4	4	4	4	
DISPLACEMENT (lt)			6.6	8.7	8.7	8.7	12.5	12.5	12.5	15.2	15.2	18.13	18.13	18.13	
NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	
BORE X STROK (mm x mm)			105 X 127	116,6 X 135,9	116,6 X 135,9	116,6 X 135,9	130 X 157	130 X 157	130 X 157	137 X 171	137 X 171	145 X 183	145 X 183	145 X 183	
COMPRESSION RATIO			16,2 : 1	16,9 : 1	16,9 : 1	16,9 : 1	16,3 : 1	16,3 : 1	16,3 : 1	16,0:1	16,0:1	14,5 : 1	14,5 : 1	14,5 : 1	
GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	
ASPIRATION			TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	
COMBUSTION SYSTEM			DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	
COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
FUEL CONSUMPTION	100%	lt/h	40.20	45.20	48.50	45.00	58.58	71.00	81.00	95.00	100.00	123.00	123.00	132.00	
	50%	lt/h	20.50	24.00	26.10	24.00	30.53	37.00	42.00	50.00	53.00	61.00	61.00	66.00	
TOTAL LUBRICATION SYSTEM CAPACITY(lt)			16.5	28.3	28.3	28.3	40	40	40	62	62	62	62	62	
TOTAL COOLANT CAPACITY (lt)			21	37.2	37.2	37.2	51.4	51.4	51.4	58	58	61	61	61	
ALTERNATOR	VOLTAGE REGULATION			(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	(+/-) % 1	
	VOLTAGE (V.)			400	400	400	400	400	400	400	400	400	400	400	400
	FREQUENCY (Hz.)			50	50	50	50	50	50	50	50	50	50	50	50
	ALTERNATOR SPEED (rpm)			1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	INSULATION SYSTEM			H	H	H	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	IP 21/23	IP 21/23	IP 21/23
	EFFICIENCY (P.F.=0,8) (%)			92.3	93.3	92.6	92.7	93	93.5	93.4	93.8	93.8	94.9	94.9	95
	OVERLOAD			1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150

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PERKINS

Diesel Generator Sets



800 - 2500 kVA

Technical Specifications

ENGINE

- * 4 stroke, water-cooled, direct injection fuel system
- * Electronic governor system
- * Wet type replacable cylindir liners
- * 24 Volt D.C. 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

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EXTRA EQUIPMENTS

- * Start switch
- * Fuel level indicator (electronic type)
- * 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 BOX

- * AMF Control Panel
- * Emergency stop button
- * Charge indicator
- * Battery charge equipment
- * Remote start by RS 232

ENGINE PROTECTION INSTRUMENTS AND ALARMS

- * High coolant temperature
- * Low oil pressure
- * Overspeed and underspeed
- * Low radiator water level
- * Over current
- * High and low battery voltage
- * High and low generator voltage and frequency

FRAME

- * Steel frame with antivibration mounts
- * Frame mounted daily fuel tank 800-900 kVA

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



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PERKINS TECHNICAL SPECIFICATIONS 800/2500 kVA - 50 Hz.

MODEL				EP800	EP900	EP950	EP1000	EP1125	EP1385	EP1500	EP1500	EP1656	EP1875	EP2028	EP2264	EP2500	
GROUP	GEN-SET POWER	STAND-BY	KVA	800	900	950	1002	1125	1385	1500	1500	1656	1880	2028	2264	2500	
			KW	640	720	760	802	900	1108	1200	1200	1325	1504	1622	1811	2000	
		PRIME	KVA	730	800	850	911	1022	1253	1364	1364	1505	1710	1844	2058	2250	
			KW	584	640	680	728	818	1002	1092	1091	1204	1368	1476	1646	1800	
	DIMENSION WEIGHT	W/L/H (mm) kg	OPEN	1875 x 3960 x 2750	1875 x 3960 x 2750	2024 x 4680 x 2730	2024 x 4680 x 2730	2024 x 4680 x 2730	1780 x 4762 x 2782	2115 x 4959 x 2820	2115 x 4959 x 2820	2115 x 4950 x 2820	2115 x 5100 x 2820	2190 x 5632 x 3425	2190 x 5716 x 3425	N/A	
				5310	5460	7110	7110	7250	10300	10500	10500	12500	12700	15100	15200	N/A	
	DIMENSION WEIGHT	W/L/H (mm) kg	CANOPY	2170 x 4750 x 3260	2170 x 4750 x 3260	2460 x 7000 x 3950	2460 x 7000 x 3950	2460 x 7000 x 3950	2460 x 8000 x 3950	2460 x 8000 x 3950	2460 x 8000 x 3950	2460 x 8000 x 3950	NA	NA	NA	NA	
				9760	9910	11640	11640	11780	15300	15500	15500	18200	N/A	N/A	N/A	N/A	
	DIESEL ENGINE	BRAND		PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
		TYPE		4006-23TAG2A	4006-23TAG3A	4008TAG1A	4008TAG1A	4008TAG2A	4012-46TWG2A	4012-46TWG3A	4012-46TAG1A	4012-46TAG2A	4012-46TAG3A	4016TAG1A	4016TAG2A	4016-61TRG3	
STAND BY PRIME		KW	685	760	844	844	947	1166	1263	1263	1395	1583	1690	1886	2083		
		KW	620	679	767	767	861	1055	1149	1148	1267	1440	1537	1715	1875		
ENGINE SPEED (rpm)				1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
CYCLE				4	4	4	4	4	4	4	4	4	4	4	4	4	
DISPLACEMENT (lt)				22.921	22.921	30.561	30.561	30.561	45.482	45.482	45.842	45.842	45.842	61.123	61.123	61.123	
NUMBER OF CYLINDERS				6 IN LINE	6 IN LINE	8 IN LINE	8 IN LINE	8 IN LINE	12 - 60 ⁰ V	12 - 60 ⁰ V	12 - 60 ⁰ V	12 - 60 ⁰ V	12 - 60 ⁰ V	16 - 60 ⁰ V	16 - 60 ⁰ V	16 - 60 ⁰ V	
BORE X STROK (mm x mm)				160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	160 X 190	
COMPRESSION RATIO				13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,0:1	13,0:1	13,0:1	13,0:1	13,0:1	13,6 : 1	13,6 : 1	13,0:1	
GOVERNOR TYPE				ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	
ASPIRATION				TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO WATER CHARGE COOLED	TURBOCHARGED AIR TO WATER CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO WATER CHARGE COOLED	
COMBUSTION SYSTEM				DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	DIRECT INJECTION	
COOLING SYSTEM				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
FUEL CONSUMPTION	100%	lt/h	159.00	175.00	183.60	195.00	220.00	259.00	283.00	281.00	301.00	370.00	383.00	434.00	473.00		
	50%	lt/h	79.00	88.00	92.40	98.00	108.00	143.00	151.00	154.00	162.00	187.00	185.00	210.00	235.00		
TOTAL LUBRICATION SYSTEM CAPACITY(lt)				113.4	113.4	153	153	153	177	177	177	177	177	214	214	214	
TOTAL COOLANT CAPACITY (lt)				105	105	149	149	149	201	201	210	210	210	316	316	N/A	
ALTERNATOR	VOLTAGE REGULATION				(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	(+/-) % 0,5	
	VOLTAGE (V.)				400	400	400	400	400	400	400	400	400	400	400	400	400
	FREQUENCY (Hz.)				50	50	50	50	50	50	50	50	50	50	50	50	
	ALTERNATOR SPEED (rpm)				1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
	INSULATION SYSTEM				H	H	H	H	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	IP 21/23	IP 21/23	IP 21/23	IP 21/23
	EFFICIENCY (P.F.=0,8) (%)				94,4	94,4	95	95	95,1	94,4	94,9	94,9	95,4	95,8	95,8	96	96
	OVERLOAD				1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150	1 HOUR / %110 2 MINUTE / %150

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



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ISO 9001:2008 REGISTERED COMPANY



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