

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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ISO 9001:2008 REGISTERED COMPANY

PERKINS TECHNICAL SPECIFICATIONS 10-165KVA-50HZ.

MODEL		EP10	EP15	EP23	EP30	EP33	EP49	EP66	EP71	EP88	EP94	EP103	EP112	EP155	EP165
GEN-SET POWER	STAND-BY	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)	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
	kg	320	405	470	720	725	820	825	910	930	1325	1360	1200	1390	1390
DIMENSION WEIGHT	W/L/H (mm)	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
	kg	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
	TYPE	403D-11G	403D-15G	404D-22G	1103A-33G	1103A-33G	1103A-33TG1	1103A-33TG2	1104A-44TG1	1104A-44TG2	1006TG1A	1006TG1A	1006TG1A	1104C-44TAG2	1006TAG
STAND BY	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
	PRIME	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 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
DISPLACEMENT (l)		1.131	1.496	2.216	3.3	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		23.0:1	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	17.0:1	17.0:1
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 AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED	TURBOCHARGED AIR TO AIR CHARGE COOLED
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
COOLING SYSTEM		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
FUEL CONSUMPTION	100% l/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% l/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(l)		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 (l)		5.21	6	7	10.2	10.2	10.2	10.2	13	13	27.7	27.7	12.6	37.22	41
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
FREQUENCY (Hz)		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
INSULATION SYSTEM		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
EFFICIENCY (P.F.=0.8) (%)	1 HOUR / %110	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
	2 MINUTE / %150														

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



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