

PERKINS 33-112 kVA

Technical Specifications



ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, natural / turbocharged / turbocharged & air to air charge cooled
- Direct injection
- Rotary type pump
- 12/24 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
- 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



PERKINS Series Diesel Generator Sets 33-112 kVA

MODEL			E PR XX 0033	E PR XX 0050	E PR XX 0066	E PR XX 0072	E PR XX 088	E PR XX 0112	
GROUP	GEN - SET POWER	STAND BY	kVA	33	50	66	72	88	112
			kW	26,4	40	52,8	57,6	70,4	89,6
		PRIME	kVA	30	45	60	65	80	101,4
			kW	24	36	48	52	64	81,1
	CANOPY DIMENSION (W x L x H) mm			1000 x 2450 x 1610	1000 x 2450 x 1610	1000 x 2450 x 1610	1000 x 2880 x 1610	1000 x 2880 x 1610	1000 x 2880 x 1610
	CANOPY WEIGHT kg			920	970	1085	1180	1230	1350
	OPEN DIMENSION (W x L x H) mm			1000 x 2050 x 1400	1000 x 2050 x 1400	1000 x 2050 x 1400	1000 x 2400 x 1390	1000 x 2400 x 1390	1000 x 2400 x 1390
	OPEN WEIGHT kg			725	775	890	960	1010	1130
ENGINE	BRAND			PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			1103A - 33G	1103A - 33TG1	1103A - 33TG2	1104A - 44TG1	1104A - 44TG2	1104C - 44TAG2
	POWER	STAND BY	kW	30,4	45,6	59,3	64,3	79,1	99,5
		PRIME	kW	27,7	41,3	53,8	58,4	71,9	90,1
	SPEED (rpm)			1500	1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4	4
	DISPLACEMENT (lt)			3,3	3,3	3,3	4,4	4,4	4,4
	NUMBER OF CYLINDERS			3 IN LINE	3 IN LINE	3 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE
	BORE AND STROKE (mm x mm)			105 x 127	105 x 127	105 x 127	105 x 127	105 x 127	105 x 127
	COMPRESSION RATIO			19,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	18,2:1
	GOVERNOR TYPE			MECHANIC	MECHANIC/ ELECTRONIC			MECHANIC	ELECTRONIC
	INDUCTION			NATURAL	TURBOCHARGED				TURBOCHARGED - AIR TO AIR CHARGE COOLED
	COMBUSTION SYSTEM			DIRECT INJECTION					
	COOLING SYSTEM			WATER					
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		7,20	10,80	13,9	14,80	18,70	22,60
		75% OF PRIME POWER		5,61	8,23	10,4	11,20	14,00	17,10
50% OF PRIME POWER		4,06	5,83	7,2	8,00	9,70	11,20		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			8,3	7,9	7,9	8	8	8	
TOTAL COOLANT CAPACITY (lt)			10,2	10,2	10,2	13	13	12,6	
FUEL TANK CAPACITY (lt)			132	132	132	180	180	180	

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