

PERKINS 10-22 kVA

Technical Specifications



ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, naturally aspirated
- Indirect injection
- Mechanic / Rotary type pump
- 12 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 10-22 kVA

MODEL				E PR XX 0010	E PR XX 0015	E PR XX 0022
GROUP	GEN - SET POWER	STAND BY	kVA	10	14,5	22,3
			kW	8	11,6	17,8
		PRIME	kVA	9	13	20,3
			kW	7,2	10,5	16,2
	CANOPY DIMENSION (W x L x H) mm			900 x 2100 x 1310	900 x 2100 x 1310	900 x 2100 x 1310
	CANOPY WEIGHT kg			515	525	595
	OPEN DIMENSION (W x L x H) mm			900 x 1750 x 1145	900 x 1750 x 1235	900 x 1750 x 1285
	OPEN WEIGHT kg			395	405	480
ENGINE	BRAND			PERKINS	PERKINS	PERKINS
	TYPE			403A - 11G1	403A - 15G1	404A - 22G1
	POWER	STAND BY	kW	9,2	13,2	20,3
		PRIME	kW	8,4	12	18,4
	SPEED (rpm)			1500	1500	1500
	CYCLE			4	4	4
	DISPLACEMENT (lt)			1,131	1,496	2,216
	NUMBER OF CYLINDERS			3 IN LINE	3 IN LINE	4 IN LINE
	BORE AND STROKE (mm x mm)			77 x 81	84 x 90	84 x 100
	COMPRESSION RATIO			23:1	22,5 :1	23,3 : 1
	GOVERNOR TYPE			MECHANIC		
	INDUCTION			NATURAL		
	COMBUSTION SYSTEM			INDIRECT INJECTION		
	COOLING SYSTEM			WATER		
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		3,00	3,70	5,30
		75% OF PRIME POWER		2,30	2,80	4,00
50% OF PRIME POWER		1,70	2,00	2,90		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			4,9	6	10,6	
TOTAL COOLANT CAPACITY (lt)			5,2	6	7	
FUEL TANK CAPACITY (lt)			92	92	92	

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

