

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 gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are certified in accordance with the requirements of 2000/14/EC, noise emission directive.

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

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 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

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
			kW	8	11,6	17,8
		PRIME	kVA	9	13,1	20,3
			kW	7,2	10,5	16,2
	CANOPY DIMENSION (W x L x H) mm			900 x 2100 x 1365	900 x 2100 x 1365	900 x 2100 x 1365
	CANOPY WEIGHT kg			655	670	730
	OPEN DIMENSION (W x L x H) mm			900 x 1750 x 1185	900 x 1750 x 1185	900 x 1750 x 1280
	OPEN WEIGHT kg			515	530	590
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)			4,9	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.