

PERKINS 150-220 kVA

Technical Specifications



ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged / turbocharged & air to air charge cooled
- Direct injection
- Electronic governor system
- 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 150-220 kVA

MODEL				E PR XX 0150	E PR XX 0165	E PR XX 0200	E PR XX 0220
GROUP	GEN - SET POWER	STAND BY	kVA	150	165	200	220
			kW	120	132	160	176
		PRIME	kVA	135	150	180	200
			kW	108	120	144	160
	CANOPY DIMENSION (W x L x H) mm			1050 x 3180 x 1870	1050 x 3180 x 1870	1050 x 3580 x 1870	1050 x 3580 x 1870
	CANOPY WEIGHT kg			1750	1750	1940	1940
	OPEN DIMENSION (W x L x H) mm			1050 x 2700 x 1650	1050 x 2700 x 1650	1050 x 3100 x 1650	1050 x 3100 x 1650
	OPEN WEIGHT kg			1505	1505	1680	1680
ENGINE	BRAND			PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			1106A - 70TG1	1106A - 70TAG2	1106A - 70TAG3	1106A - 70TAG4
	POWER	STAND BY	kW	131,4	144,1	175,2	191,3
		PRIME	kW	118,3	131	157,7	173,9
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (lt)			7,01	7,01	7,01	7,01
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE AND STROKE (mm x mm)			105 x 135	105 x 135	105 x 135	105 x 135
	COMPRESSION RATIO			18,2 : 1	16:01	16:01	16:01
	GOVERNOR TYPE			MECHANIC			ELECTRONIC
	INDUCTION			TURBOCHARGED	TURBOCHARGED - AIR TO AIR CHARGE COOLED		
	COMBUSTION SYSTEM			DIRECT INJECTION			
	COOLING SYSTEM			WATER			
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		30,2	33,40	41,2	45,8
75% OF PRIME POWER		22,70	24,70	30,9	34,3		
50% OF PRIME POWER		15,90	16,40	20,6	22,9		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			18,0	16,5	16,5	16,5	
TOTAL COOLANT CAPACITY (lt)			21	21	21	21	
FUEL TANK CAPACITY (lt)			280	280	380	380	

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