

PERKINS

Technical Specifications



ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air COOLED /turbocharged & air to water COOLED
- Direct injection
- Electronic governor system
- 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
- Hardware and materials needed
- Battery charger
- USB port & RS-485 output

GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Over current load
- Low oil pressure
- High & low genset voltage
- High & low engine speed
- Start/stop failure
- Low radiator water level



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

PERKINS Series Diesel Generator Sets 330-630 kVA

MODEL				E PR XX 0330	E PR XX 0400	E PR XX 0450	E PR XX 0500	E PR XX 0550	E PR XX 0630
GROUP	GEN-SET POWER	STAND BY	kVA	330	400	450	500	550	630
			kW	264	320	360	400	440	504
		PRIME	kVA	300	350	400	455	500	591
			kW	240	280	320	364	400	472.8
	CANOPY DIMENSION (W x L x H) mm			1200x3800x2490	1500x3950x2525	1500x3950x2525	1500x3950x2525	1500x3950x2525	1700x4400x2860
	CANOPY WEIGHT kg			3195.2	4989.4	5125.4	5389	5519	6298
	OPEN DIMENSION (W x L x H) mm			1200x3100x2490	1500x3600x2110	1500x3600x2110	1500x3600x2110	1500x3600x2110	1700x3500x2160
	OPEN WEIGHT			2877.2	4263.4	4399.4	4663	4793	5641
ENGINE	BRAND			PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			1506A-E88TAG5	2206A-E13TAG2	2206A-E13TAG3	2506A-E15TAG1	2506A-E15TAG2	2806A-E18TAGIA
	POWER	STAND BY	kW	293	349	392	435	478	574
		PRIME	kW	267	305	349	396	435	522
	SPEED (rpm)			1500	1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4	4
	DISPLACEMENT (lt)			8.8	12.5	12.5	15.2	15.2	18.1
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			112 x 149	130 x 157	130 x 157	137 x 171	137 x 171	145 x 183
	COMPRESSION RATIO			16.1 : 1	16.3 : 1	16.3 : 1	16.0 : 1	16.0 : 1	14.5 : 1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		64.9	71	81	95	100	123
		%75 PRIME POWER		48.2	54	62	72	76	90
%50 PRIME POWER		33	37	42	50	53	61		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			41	40	40	62	62	62	
TOTAL COOLANT CAPACITY (lt)			33.2	51.4	51.4	58	58	61	
FUEL TANK CAPACITY (lt)			360	827	827	827	827	980	

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