

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 900-1385 kVA

MODEL				E PR XX 0900	E PR XX 1002	E PR XX 1125	E PR XX 1250	E PR XX 1385	
GROUP	GEN-SET POWER	STAND BY	kVA	900	1002	1125	1250	1385	
			kW	720	802	900	1000	1000	
		PRIME	kVA	800	911	1022	1125	1259	
			kW	640	729	818	900	1007	
	CANOPY DIMENSION (W x L x H) mm				2200x5550x3310	2200x5550x3310	2200x5550x3310	2200x5550x3310	2438x7000x3620
	CANOPY WEIGHT kg				10686,4	12710	12872	12980	19542
	OPEN DIMENSION (W x L x H) mm				2200x5300x2460	2200x5300x2460	2200x5300x2460	2200x5300x2460	2090x4800x2375
	OPEN WEIGHT				8931,4	10955	11117	11225	12694
ENGINE	BRAND			PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	
	TYPE			4006-23TAG3A	4008-TAG1A	4008-TAG2A	4008-3DTAG3	4012-46TWG2A	
	POWER	STAND BY	kW	760	855	958	1055	1166	
		PRIME	kW	679	778	872	947	1055	
	SPEED (rpm)			1500	1500	1500	1500	1500	
	CYCLE			4	4	4	4	4	
	DISPLACEMENT (lt)			22,921	30,561	30,561	30,561	45,842	
	NUMBER OF CYLINDERS			6 IN LINE	8 IN LINE	8 IN LINE	8 IN LINE	12 - 60° V	
	BORE x STROKE (mm x mm)			160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	
	COMPRESSION RATIO			13,6 : 1	13,6 : 1	13,6 : 1	13,1 : 1	13,6 : 1	
	GOVERNOR TYPE			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 WATER COOLED	
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	
	COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER	
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		172	195	215	244	258	
		%75 PRIME POWER		130	143	162	188	196	
%50 PRIME POWER		90	98	111	120	143			
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			113,4	153	153	153	177		
TOTAL COOLANT CAPACITY (lt)			105	149	149	140	210		
FUEL TANK CAPACITY (lt)			2072	2072	2072	2072	2500		

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



Discover the potential