

# PERKINS 400-550 kVA

## Technical Specifications



### ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge 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
- 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 400-550 kVA

MODEL				PR XX 0400	PR XX 0450	PR XX 0500	PR XX 0550
GROUP	GEN - SET POWER	STAND BY	kVA	400	450	500	550
			kW	320	360	400	440
		PRIME	kVA	350	400	455	500
			kW	280	320	364	400
	CANOPY DIMENSION (W x L x H) mm			1500 x 4400 x 2660	1500 x 4400 x 2660	1500 x 4400 x 2660	1500 x 4400 x 2660
	CANOPY WEIGHT kg			3520	3610	3815	3850
	OPEN DIMENSION (W x L x H) mm			1500 x 3600 x 2200	1500 x 3600 x 2200	1500 x 3600 x 2200	1500 x 3600 x 2200
	OPEN WEIGHT kg			3010	3105	3310	3345
ENGINE	BRAND			PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			2206A - E13TAG2	2206A - E13TAG3	2506A - E15TAG1	2506A - E15TAG2
	POWER	STAND BY	kW	349	392	435	478
		PRIME	kW	305	349	396	435
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (lt)			12,5	12,5	15,2	15,2
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE AND STROKE (mm x mm)			130 x 157	130 x 157	137 x 171	137 x 171
	COMPRESSION RATIO			16,3 : 1	16,3 : 1	16,0:1	16,0:1
	GOVERNOR TYPE			ELECTRONIC			
	INDUCTION			TURBOCHARGED - AIR TO AIR CHARGE COOLED			
	COMBUSTION SYSTEM			DIRECT INJECTION			
	COOLING SYSTEM			WATER			
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		71,00	81,00	95,00	100,00
		75% OF PRIME POWER		54,00	62,00	72,00	76,00
50% OF PRIME POWER		37,00	42,00	50,00	53,00		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			40	40	62	62	
TOTAL COOLANT CAPACITY (lt)			51,40	51,40	58	58	
FUEL TANK CAPACITY (lt)			970	970	970	970	

