

PERKINS 630-700 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 630-700 kVA

MODEL				PR XX 0630	PR XX 0650	PR XX 0700
GROUP	GEN - SET POWER	STAND BY	kVA	630	650	700
			kW	504	520	560
		PRIME	kVA	591	591	650
			kW	472,8	472,8	520
	CANOPY DIMENSION (W x L x H) mm			1700 x 4400 x 2750	1700 x 4400 x 2750	1700 x 4400 x 2750
	CANOPY WEIGHT kg			4620	4620	4760
	OPEN DIMENSION (W x L x H) mm			1700 x 3600 x 2250	1700 x 3600 x 2250	1700 x 3600 x 2250
	OPEN WEIGHT kg			4070	4070	4210
ENGINE	BRAND			PERKINS	PERKINS	PERKINS
	TYPE			2806A - E18TAG1A	2806A - E18TAG1A	2806A - E18TAG2
	POWER	STAND BY	kW	574	574	609
		PRIME	kW	522	522	565
	SPEED (rpm)			1500	1500	1500
	CYCLE			4	4	4
	DISPLACEMENT (lt)			18,1	18,1	18,1
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE
	BORE AND STROKE (mm x mm)			145 x 183	145 x 183	145 x 183
	COMPRESSION RATIO			14,5 : 1	14,5 : 1	14,5 : 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		123,00	123,00	132,00
		75% OF PRIME POWER		90,00	90,00	97,00
		50% OF PRIME POWER		61,00	61,00	66,00
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			62	62	62	
TOTAL COOLANT CAPACITY (lt)			61	61	61	
FUEL TANK CAPACITY (lt)			1100	1100	1100	

