

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 gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are CE certified in accordance with the requirements of 2000/14/EC, noise emission directive.

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

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 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

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				E PR XX 0630	E PR XX 0650	E 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			4900	4900	5100
	OPEN DIMENSION (W x L x H) mm			1700 x 3740 x 2180	1700 x 3740 x 2180	1700 x 3740 x 2180
	OPEN WEIGHT kg			4200	4200	4400
ENGINE	BRAND			PERKINS	PERKINS	PERKINS
	TYPE			2806C - E18TAG1A	2806C - E18TAG1A	2806A - E18TAG2
	POWER	STAND BY	kW	565	565	609
		PRIME	kW	514	514	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		126,00	126,00	132,00
		75% OF PRIME POWER		96,00	96,00	97,00
50% OF PRIME POWER		63,00	63,00	66,00		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			62	62	62	
TOTAL COOLANT CAPACITY (lt)			61	61	61	
FUEL TANK CAPACITY (lt)			1100	1100	1100	

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