

PERKINS 275-313 kVA

Technical Specifications

**50 Hz
60 Hz**

ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged, air to air charge cooled
- Direct injection
- Electronic type pump
- 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
- 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 Assembling Base Frame with screw & nuts



Refilling from out of canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



PERKINS Series Diesel Generator Sets 275-313 kVA

GEN SET	MODEL			E PR ST 0275			
	FREQUENCY			50 Hz	60 Hz		
	VOLTAGE			400 V	440 V	380 V	220 V
	STANDBY	kVA	275	313	313	313	
		kW	220	250	250	250	
	PRIME	kVA	250	281	281	281	
		kW	200	225	225	225	
	CANOPY DIMENSION (W x L x H) mm.			1150 x 3820 x 2465		1150 x 3820 x 2465	
	CANOPY WEIGHT (KG)			2630		2630	
	OPEN DIMENSION (W x L x H) mm.			1150 x 3340 x 2220		1150 x 3340 x 2220	
OPEN WEIGHT (KG)			2595		2595		
DIESEL ENGINE	PERKINS			1506A-E88TAG3			
	NET ENGINE POWER	STANDBY	kW	244	278	278	278
		PRIME	kW	222	250	250	250
	ENGINE SPEED (rpm)			1500	1800	1800	1800
	CYCLE			4 STROKE		4 STROKE	
	DISPLACEMENT (lt)			8,8		8,8	
	NO. OF CYLINDERS / ALIGNMENT			6 / IN LINE		6 / IN LINE	
	BORE / STROKE (mm.)			112 x 149		112 x 149	
	COMPRESSION RATIO			16,1:1		16,1:1	
	GOVERNING TYPE			ELECTRONIC		ELECTRONIC	
	INDUCTION			TURBOCHARGED, AIR TO AIR CHARGE COOLED		TURBOCHARGED, AIR TO AIR CHARGE COOLED	
	COMBUSTION SYSTEM			DIRECT INJECTION		DIRECT INJECTION	
	FUEL CONSUMPTION (lt/h)	%100 LOAD	56	63			
		%75 LOAD	42	48			
		%50 LOAD	29	33			
	TOTAL COOLANT CAPACITY (lt)			N/A		N/A	
TOTAL LUBRICATING CAPACITY (lt)			41		41		
FUEL TANK CAPACITY (lt)			550		550		
ALTERNATOR	STAMFORD			UCDI274K	UCDI27K	HCI444C	UCDI274K
	CONTROL SYSTEM			SELF EXCITED	SELF EXCITED		
	A.V.R. / VOLTAGE REGULATION			SX440 / ± 1 %	SX440 / ± 1 %	SX440 / ± 1 %	SX440 / ± 1 %
	INSULATION SYSTEM			CLASS H		CLASS H	
	PROTECTION			IP 23		IP 23	
	RATED POWER FACTOR			0,8		0,8	
	FREQUENCY			50 Hz	60 Hz	60 Hz	60 Hz
	VOLTAGE			400 V	440 V	380 V	440 V
	WINDING NO			311	311	14	311
	CONT. H - 125/40 °C			250	299	300	299
	STANDBY - 163/27 °C			275	320	330	320

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