

PERKINS 220-269 kVA

Technical Specifications



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 220-269 kVA

MODEL		E PR ST 0220				
		50 Hz		60 Hz		
GEN SET	FREQUENCY	50 Hz		60 Hz		
	VOLTAGE	400 V		440 V	380 V	220 V
	STANDBY	kVA	220	269	269	269
		kW	176	215	215	215
	PRIME	kVA	200	245	245	245
		kW	160	196	196	196
	CANOPY DIMENSION (W x L x H) mm.		1050 x 3580 x 1870		1050 x 3580 x 1870	
	CANOPY WEIGHT (KG)		1960		1960	
	OPEN DIMENSION (W x L x H) mm.		1050 x 3100 x 1950		1050 x 3100 x 1950	
	OPEN WEIGHT (KG)		1710		1710	
PERKINS		1506A-E88TAG1				
NET ENGINE POWER	STANDBY	kW	196	239	239	239
	PRIME	kW	178	218	218	218
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	N/A		N/A		
	%75 LOAD	N/A		N/A		
	%50 LOAD	N/A		N/A		
TOTAL COOLANT CAPACITY (lt)		N/A		N/A		
TOTAL LUBRICATING CAPACITY (lt)		41		41		
FUEL TANK CAPACITY (lt)		550		550		
STAMFORD		UCD274H	UCDI27J	HCI444C	UCDI274J	
ALTERNATOR	CONTROL SYSTEM		SELF EXCITED		SELF EXCITED	
	A.V.R. / VOLTAGE REGULATION		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		200	281	300	281
	STANDBY - 163/27 °C		220	306	330	306

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