

PERKINS 49,6-58,7 kVA

Technical Specifications

**50 Hz
60 Hz**

ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged
- Direct injection
- Rotary type pump
- 12 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 49,6-58,7 kVA

GEN SET	MODEL			E PR ST 0050			
	FREQUENCY			50 Hz	60 Hz		
	VOLTAGE			400 V	440 V	380 V	220 V
	STANDBY	kVA	49,6	58,7	58,7	58,7	
		kW	39,7	46,9	46,9	46,9	
	PRIME	kVA	45	53,1	53,1	53,1	
		kW	36	42,5	42,5	42,5	
	CANOPY DIMENSION (W x L x H) mm.			1000 x 2450 x 1615			
	CANOPY WEIGHT (KG)			1095			
OPEN DIMENSION (W x L x H) mm.			1000 x 2050 x 1550				
OPEN WEIGHT (KG)			955				
DIESEL ENGINE	PERKINS			1103A-33TG1			
	NET ENGINE POWER	STANDBY	kW	45,6	53,9	53,9	53,9
		PRIME	kW	41,3	48,9	48,9	48,9
	ENGINE SPEED (rpm)			1500	1800	1800	1800
	CYCLE			4 STROKE			
	DISPLACEMENT (lt)			3,3			
	NO. OF CYLINDERS / ALIGNMENT			3 / IN LINE			
	BORE / STROKE (mm.)			105 x 127			
	COMPRESSION RATIO			17,25:1			
	GOVERNING TYPE			ROTARY TYPE PUMP			
	INDUCTION			TURBOCHARGED			
	COMBUSTION SYSTEM			DIRECT INJECTION			
	FUEL CONSUMPTION (lt/h)	%100 LOAD	10,8	12,9			
		%75 LOAD	8,23	9,9			
		%50 LOAD	5,83	7,1			
	TOTAL COOLANT CAPACITY (lt)			10,2			
	TOTAL LUBRICATING CAPACITY (lt)			7,9			
	FUEL TANK CAPACITY (lt)			170			
ALTERNATOR	STAMFORD			UCI224D	UCI224D	UCI224D	UCI224H
	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			50	62,5	55	62,5
	STANDBY - 163/27 °C			55	66,3	60	66,3

EMSA ENERJİ PAZARLAMA VE DIŞ TİC. LTD. ŞTİ.

Meclis Mah. Karacaoglan Sok. No: 2/A

Sancaktepe / İstanbul TURKEY

Tel: +90 216 420 00 03

Fax: +90 850 205 45 62

info@emsa.gen.tr

export@emsa.gen.tr

www.emsa.gen.tr



Türkiye
Discover
the potential