

PERKINS 88-100,3 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 88-100,3 kVA

GEN SET	MODEL			E PR ST 0088			
	FREQUENCY			50 Hz	60 Hz		
	VOLTAGE			400 V	440 V	380 V	220 V
	STANDBY	kVA	88	100,3	100,3	100,6	
		kW	70,4	80,3	80,3	80,3	
	PRIME	kVA	80	91,3	91,3	91,3	
		kW	64	73	73	73	
	CANOPY DIMENSION (W x L x H) mm.			1000 x 2900 x 1615			
	CANOPY WEIGHT (KG)			1225			
OPEN DIMENSION (W x L x H) mm.			1000 x 2400 x 1480				
OPEN WEIGHT (KG)			1020				
DIESEL ENGINE	PERKINS			1104A-44TG2			
	NET ENGINE POWER	STANDBY	kW	79,1	90,2	90,2	90,2
		PRIME	kW	71,9	82	82	82
	ENGINE SPEED (rpm)			1500	1800	1800	1800
	CYCLE			4 STROKE			
	DISPLACEMENT (lt)			4,4			
	NO. OF CYLINDERS / ALIGNMENT			4 / 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	18,7	22,3			
		%75 LOAD	14,0	16,9			
		%50 LOAD	9,7	11,9			
	TOTAL COOLANT CAPACITY (lt)			13			
	TOTAL LUBRICATING CAPACITY (lt)			8			
	FUEL TANK CAPACITY (lt)			170			
ALTERNATOR	STAMFORD			UCI224G	UCI224G	UCI224G	UCI224G
	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			85	97,5	100	97,5
	STANDBY - 163/27 °C			90,8	106,3	106,3	106,3

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