

# Generating Set

POWER TECHNOLOGY

EPR 275



Prime Power*	Standby Power**	Voltage/Ph	Hz/rpm***	PF
250kVA/200 kWe	275 kVA/220 kWe	400/3Ph	50/1500	0.8

**Prime power\***

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.

**Standby power\*\***

Limited to 500 hours annual usage with an average load factor of 80% of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power. Available in 60Hz for all voltage ratings.\*\*\*

**Standard Reference Conditions**

Note: Standard reference conditions 40°C (104°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

**Diesel Generator Set**

Engine Make /Model	PERKINS 1206A-E70TTAG3
Alternator Make /Model	Leroy Somer TAL-046-D
Control Panel	DSE 6120
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant
Circuit Breaker Type	3 Pole MCCB (4P Available as optional)
Built in Base Fuel Tank Capacity	510L
Battery	Maintenance free Lead Acid

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight ( G )
Close Type	3800	1300	1900	3260
Open Type	2700	1100	1850	2300

**ENGINE SPECIFICATIONS**

Engine Make Model	PERKINS 1206A-
No. of Cylinders	6 vertical in-line
Cycle	4 stroke DI
Aspiration	Turbocharged
Cooling Method	Water cooled
Governing Type	Electronic
Governing Class	G2 - ISO 8528 Part 1
Compression Ratio	15.8:1
Displacement	7.01 L
Bore/Stroke	105 x 135 mm
Dynamic Charging Alternator	45AMP, 24V

**COOLING SYSTEM**

Total Coolant Capacity (L)	25 L
Cooling Fan Air Flow	370 m <sup>3</sup> / min
Radiator Fan Load	5 kW
Cooling system design	50°C
Heat Radiation to Room (PRP)	35 kW

**LUBRICATION SYSTEM**

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	41 L
Oil Type	API-CH-4 or ACEA E5

**AIR SYSTEM**

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	13.5 m <sup>3</sup> /min
Combustion Air Flow (ESP)	15.7 m <sup>3</sup> /min
Max Air Filter Intake Restriction	6.2 kPa

**Exhaust System**

Muffler Type	Industrial Grade
Max. Back Pressure	10 kPa
Exhaust Gas Flow (PRP/ESP)	37.5 /40.4 m <sup>3</sup> / min
Exhaust Gas Temperature	< 558°C

**Comply with Standards**

ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

**Powered By:**

Silent / Closed Type

Image for illustration purposes only.

**Why XMN Generator Technology ?**

When you are running a business every competitive advantage counts, choosing a right Generator Set can make all the difference to bottom line.

**1. Features & Benefits:**

XMN Gen set is powered by Perkins Engine , the world leader having over 85 years of innovation and excellence, with customers support in 182 countries from 3500 outlets.

XMN Gen set is powered by Leroy Somer France Alternator, the Global number 1 in Alternators, with over 99 years of Experience, Having 120+ active patents, in over 40 countries and over 80 service centers. NGT Gen set is equipped with DSE control-

ler, one of the world's top manufacturers in UK, having over 40 years of excellence, the most advanced and user friendly controller.

Low fuel consumption, saving on fuel spend

Compact and rugged design, saving on

transport and storage cost  
Designed to occupy less space considering

critical applications and cities where space is at a premium.

Low noise and vibration, considering criti-

cal applications where noise level matters  
Easy maintenance and long service inter-

vals , saving on maintenance cost  
Subject to rigorous tests including load

acceptance, cooling, vibration and noise level prior shipment to customer.

Simple to operate and environment friendly in worst ambient conditions

Equipped with built-in fuel tank sufficient

for 8 to 10 hours of operations.  
Fully Engineering wide range of optional

accessories available.

(Contd.)

# Generating Set

TECHNICAL DATA SHEET

EPR 275



Open Type

Image for illustration purposes only.



PERKINS Engine  
1206A-E70TAG3



Leroy Somer  
TAL-046-D



DSE6120 MKII  
AUTO START & AUTO MAINS  
FAILURE CONTROL



NGT ENCLOSURE/ CANOPY

Engine Fuel System	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	64.5 L/hr
Fuel Consumption 100% PRP	56.9 L/hr
Fuel Consumption 75% PRP	41.5 L/hr
Fuel Consumption 50% PRP	28.1 L/hr

ALTERNATOR SPECIFICATIONS	
Alternator Make /Model	Leroy Somer TAL-046-D
AVR Model	R150
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	Cont. H - 125/40°C
Ingress Protection Rating	IP 23
Excitation System	Self Excited
Voltage Regulation	+ 1%
Harmonic Coefficient THF	< 2.5%
Tel. influence TIF	< 50
Cooling air flow	0.48 m <sup>3</sup> / Sec

Controller Make & Model	DeepSea 610
Operation Mode	AMF
Display	Graphic Back-lit LCD (128x64) pixels
Ingress Protection Rating	IP65
Binary Inputs/Outputs	6 / 4
Analog Inputs	4
Measurement	Vac, A, Hz, kVA, kW, Vdc
Event Log	Alarms log, Hrs log
Communication	USB

Please refer to Controller Data Sheet for more details.

Enclosure Type	Acoustic & Weather Proof
Drainage	Fuel and Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	TAL 9010 - Powder coated
Base frame RAL Color	RAL 9011 - Powder coated
Noise Pressure level @	68db(A) @ 7 mt

Distributed & Serviced by:



İvedik Organize Sanayi Bölgesi  
1375.. St 40 Num.  
Yenimahalle / Ankara / TURKEY

## WARRANTY POLICY:

XMN Generator technology products has a warranty for all prime equipment, limited to 2000 running hours or 12 months warranty & For Standby equipment, Limited to 500 running hours or 12 months warranty whichever occur first against manufacturing defect.

Wearing parts (filters), incorrect man-made operation, Back up Genset maintenance failures are excluded from the warranty policy

For more details please refer to <https://xmn-power.business.site/>

## 3. DOCUMENTAION

Operation and Maintenance Manual, GAD, Wiring Diagram & FAT Report are Accompanied with Genset.

## 4. OPTIONAL FEATURES

### A. Engine

Heavy-Duty Air Filter  
Coolant Heater  
Lubricant Oil Heater  
Fuel and Water Separator  
Lube Oil Rotary Pump

### B. Alternator

Anti Condensation Heater  
PMG + AVR  
Double Bearing Alternator  
RTDs For Bearing and Winding

### C. Cooling System:

55 degree Radiator  
Remote Radiator

### D. Control System:

AMF / Parallel  
Remote Annunciators  
4 p manual/Motorized Circuit breaker

### E. Automatic Transfer Switch (ATS):

Contractor or Breaker type ATS  
Motorized changeover type ATS

### F. Start Battery:

Nickel-cadmium battery  
Maintenance-free battery  
Battery charger and selector switch  
Charging current meter

### G. Exhaust Muffler:

Residential grade  
Critical grade  
Hospital grade

## H. Available for voltages :

400/230V, 480/277V, 380/220V, 440/254V,  
416/240V, 220/127V, 208/120V

Due to continuous research & product development, we reserve the right to change specification with out notice