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ALQWA ALTHAKYA TRADING L.L.C

**AQT GENERATORS**  
www.aqtgenerators.com

# AQT-250

**GENERATING SET**  
(TECHNICAL DATA SHEET)

## Standard Specifications:

### 1- Prime Rating:

Unlimited hours usage, with an average load factor of 80% over each 24 hour period. 10% overload is available for 1 hour in every 12 hours operation. 0 overload is permitted on standby power.

### 2- Standby Rating:

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.

### 3- Engine:

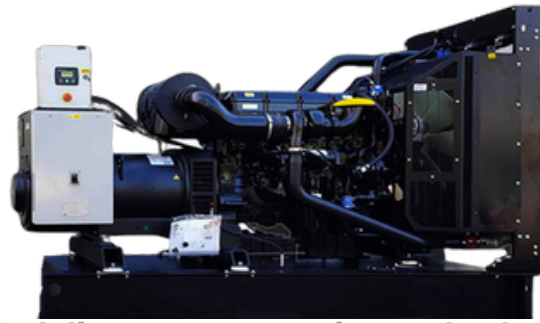
Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

### 4- Alternator Type:

brushless AC alternator

### 5- Radiator:

50°C, fan protective shroud



*"Wedeliver power, service and solutions in exactly the way you want."*

## Output Rating:

PRIME:		STANDBY:	
50 Hz—1500 Rpm 400 V, 3ph			
225 kVA	180 kW	250 kVA	200 kW
60 Hz—1800 Rpm 480 V, 3ph			
225 kVA	180 kW	250 kVA	200 kW

## ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	1206A-E70TTAG2
No. of Cylinders	6 vertical in-line
Cycle	4 Stroke
Aspiration	Series turbocharged aftercooled
Cooling Method	Water cooled
Compression Ratio	15.8:1
Displacement	7.01 L   427.7 in3
Bore/Stroke Dynamic	105 x 135 mm   4.13 x 5.3 in

## ALTERNATOR SPECIFICATIONS

Alternator Make	Stamford
Alternator Model	UCDI274J
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
AVR Model	R150

## Comply with Standards

ISO3046,BS5514,DIN6271,NEMA-MGI, DIN EN, BS 5000, IEC 60034,IEC 60947-2

## Alternator Operating Data

Over speed	2250 rpm
Voltage Regulation	+ 1%
Harmonic Coefficient THF	< 2.5%
Tel. influence TIF	< 50
Cooling air flow	0.48 m3/ Sec

## Powered By:

**Perkins**

Diesel Generator

**STAMFORD**  
power generation

**LEROY-SOMER**

**meccalte**

**DSE**



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## Standard Specifications:

### 6- Fuel Tank:

Capacity of fuel tank is for 8-10hours running

Built-in fuel tank up to 800 kVA

### 7- Circuit Breaker:

3poleLSMCCB

### 8- Control system alarms:

• • • • •

- Over and Under Speed
- Low and High Battery Volt.
- Start and Stop Failure
- Over Current
- Under / Over Generator Voltage
- Low Oil Pressure
- Emergency stop
- High engine temperature

### 9- Warranty policy:

- AQT Generator products has a warranty for 12 Months or 1000 first hours whichever occurs against any manufacturing defects
- Wearing parts (filters), incorrect man made operation, maintenance failures are excluded from the warranty policy

## Acoustic Enclosure Specifications:

Enclosure Type	Acoustic & Weather Proof
Drainage Provision	Fuel and Water Drainage
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection Rating	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	TAL 9010 RAL 9011
Base frame RAL Color	
Noise Pressure level @ 7m	73db(A) @ 7mt

## Control System:

Large back-lit text display

Multiple displaylanguages

DSENET expansioncompatible

Data logging facility

Fully configurable via PC using USB communication

Front panel configuration

Efficient power save mode

3 phase generator sensing

Accumulated power monitoring (kWh, kVA h, kVAh)

Generator/load current monitoring and protection (kW)

Breaker control via fascia buttons

Fuel and start outputs, configurable using can

4 configurable DC outputs

4 configurable analogue/digital inputs

Automatically transfers between mains (utility) and generator

Increased input and output expansion capability via dseNET

IP65 rating (with optional gasket) offers increased resistance to water ingress

Digital inputs; Analogue Inputs

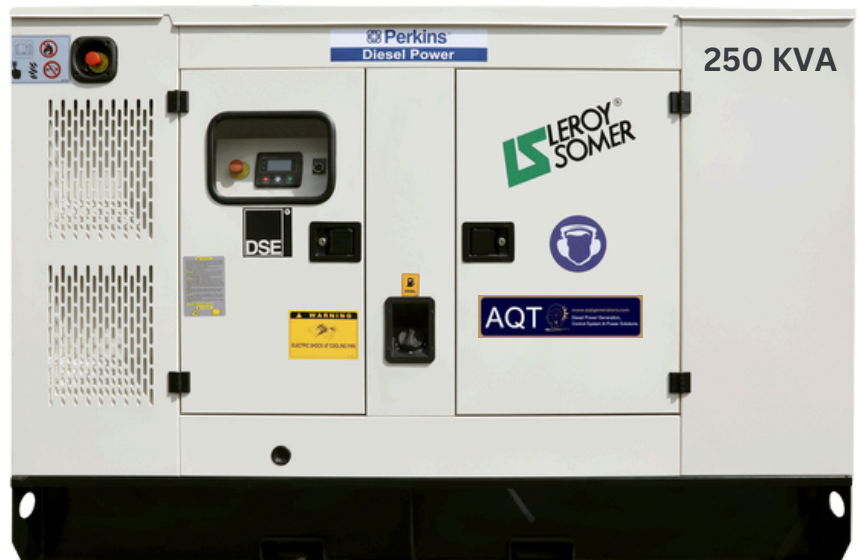


## DSE6110 MKII

AUTO START & AUTO MAINS  
FAILURE CONTROL

## Dimensions:

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	3015	1000	1980	515	1975
CLOSED	4414	1614	2235	760	3290



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## Engine:



Perkins heavy duty high performance industrial type diesel engine.

### COOLING SYSTEM

Total Coolant Capacity (L)	25 L
Radiator Fan Load	9 kW
Heat Radiation to Room (PRP)	15 kW
Heat Radiation to Room (ESP)	15 kW

### LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	16 litres
Oil Type	API CH4/C14; SAE 15W-40

### EXHAUST SYSTEM

Muffler Type	Industrial Grade
Max. Back Pressure	10 kPa
Exhaust Gas Flow (PRP/ESP)	34.4 /35.7 m <sup>3</sup> / min
Exhaust Gas Temperature	< 475 0C

### FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	56.6 L/hr
Fuel Consumption 100% PRP	51 L/hr
Fuel Consumption 75% PRP	38 L/hr
Fuel Consumption 50% PRP	25.5 L/hr

### AIR SYSTEM

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	143.5 m <sup>3</sup> /min
Combustion Air Flow (ESP)	14.1 m <sup>3</sup> /min
Max Air Filter Intake Restriction	6.2 kPa

## Optional configurations:

### Engine accessories:

Heavy-duty air filter  
Coolant heater  
Lubricant oil heater  
Fuel and Water Separator  
Lube oil rotary pump

### Alternator And Accessories:

Leroy somer/stamford  
Anti condensation heater  
PMG + AVR ◇ Double bearing  
Alternator High voltage \_\_\_\_\_kV  
RTDs for Bearing and winding

### Cooling System:

55 degree Radiator  
Remote Radiator

### Control System:

AMF  
Parallel  
Practical type in low temperature environment  
Control Screen Heater  
Remote Annunciators  
Other (Comp, DEIF)

### Circuit Breaker:

3/4 poles  
Fixed/handcart type  
Electric mechanism

### Automatic Transfer Switch (ATS):

ATScabinet  
Contractor type ATS  
Motorized changeover type ATS

### Start Battery:

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

### External Fuel Tank:

Single/doublewall fuel tank (500-5000 L)  
Fuel Transfer pump

### Exhaust Muffler:

Residential grade  
Critical grade  
Hospital grade

### Available for voltages :

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



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## Our Success

We owe our success to our hardworking, highly skilled and committed employees. Our core focus lies in providing customized integrated products and services with well-established infrastructure, equipment and manpower to support and provide the turn key solutions for various industries. We provide the latest in power generator technology equipment, allowing us to give our customers the best product and the best possible service.

## Objectives

Our objective is to serve customers to the utmost by providing them with the best-in-class electric generators, reliable door to door delivery, and after sales service at competitive market prices.

**"We continue to build our solid reputation for excellence and response, while delivering reliable and tailored solutions to meet the customer's requirements".**



# AQT GENERATORS

*At AQT Generators, we take pride in being a dynamic force in the realm of diesel generator sets, offering an extensive range of international brands renowned for their reliability and performance. Our commitment to excellence is reflected in our partnerships with world-famous engine manufacturers such as Perkins and Cummins, coupled with top-notch alternators from Stamford and Leroy Somer.*



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ALQWA ALTHAKYA TRADING L.L.C

## AQT GENERATORS

## CONTACT US

Office 204, Al Owais Building,  
Port Saeed, Plot No. 388-0,  
Dubai, UAE

Call Us: +971 4 547 1703

Email: [info@aqtgenerators.com](mailto:info@aqtgenerators.com)

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