

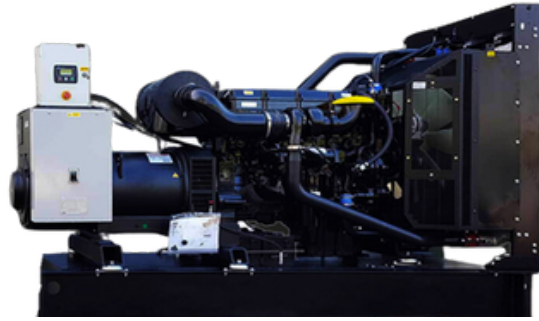


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ALQWA ALTHAKYA TRADING L.L.C

AQT GENERATORS
www.aqtgenerators.com

AQT-273

GENERATING SET (TECHNICAL DATA SHEET)



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

Output Rating:

PRIME:		STANDBY:	
60 Hz—1800 Rpm 400 V, 3ph			
248KVA	198.4KW	273KVA	218.4KW

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

ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	1506A-E88TAG2
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	AQT Leroy Somer STAMFORD
Alternator Model	AQT TAL A 46 C UCD274K
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:



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Standard Specifications:

6- Fuel Tank:

Capacity of fuel tank is for 8-10 hours running

Built-in fuel tank up to 800 kVA

7- Circuit Breaker:

3 pole LSMCCB

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 have 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

Control System:

Large back-lit text display

Multiple display languages

DSENET expansion compatible

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, kVAR h)

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

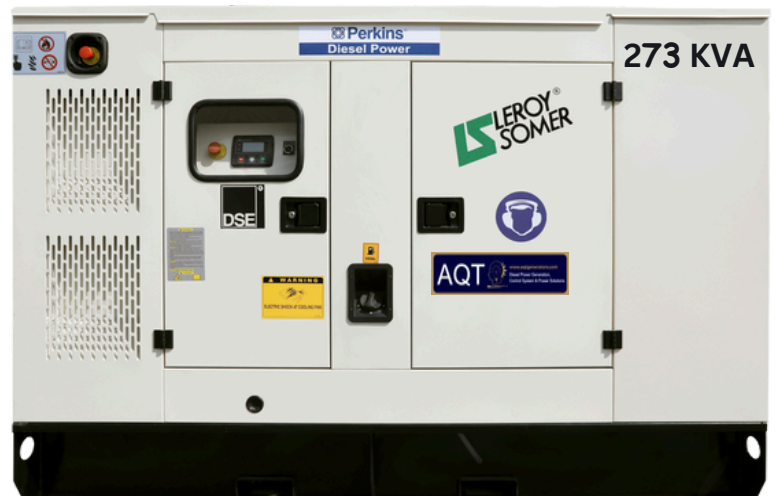
Dimensions:

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	3015	1000	1980	515	2000
CLOSED	4414	1600	2250	760	3290

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

Acoustic Enclosure Specifications:

Enclosure Type	Acoustic & Weather Proof
Drainage Provision	Fuel and Water Drainage
Transportation	Tested Single Point Lifting
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



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Engine:



Perkins heavy duty high performance industrial type diesel engine.

COOLING SYSTEM

Total Coolant Capacity (L)	25 L
Cooling Fan Air Flow	370 m ³ / min
Radiator Fan Load	15 kW
Heat Radiation to Room (PRP)	128.8 kW
Heat Radiation to Room (ESP)	141.7 kW

LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	13-16 litres
Oil Type	API-CH-4 or ACEA E5

EXHAUST SYSTEM

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

FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	61.5 L/hr
Fuel Consumption 100% PRP	54.5 L/hr
Fuel Consumption 75% PRP	40.4 L/hr
Fuel Consumption 50% PRP	27.8 L/hr

AIR SYSTEM

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	143.5 m ³ /min
Combustion Air Flow (ESP)	14.1 m ³ /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

De-rating may apply.



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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 integration of world-famous engine manufacturers such as Perkins and Cummins, paired with premium alternators from Stamford and Leroy Somer.



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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

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