



القوة الذكية للتجارة بش. ذ. م. م  
ALQWA ALTHAKYA TRADING L.L.C

# AQT GENERATORS

www.aqtgenerators.com

# AQT-1385

## GENERATING SET

### (TECHNICAL DATA SHEET)

#### Standard Specifications:

##### 1 PrimeRating:

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 StandbyRating:

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:

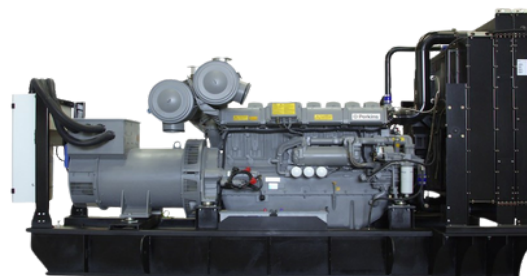
Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

##### 4 Alternator Type:

brushless AC alternator

##### 5 Radiator:

50°C, fan protective shroud



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

#### Output Rating:

PRIME:		STANDBY :	
50Hz—1500Rpm	400 V, 3ph		
1253kVA	1002 kW	1385 kVA	1108 kW
60 Hz—1800 Rpm	480 V, 3ph		
1250 kVA	1000 kW	1375 kVA	1000 kW

#### ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	4012-46TWG2A
No. of Cylinders	12 60° Vee form
Cycle	4 Stroke
Aspiration	Quad turbocharged, aftercooled
Cooling Method	Water cooled
Governing Type	Electronic
Governing Class	G2-ISO 8528-5
Compression Ratio	13.6:1
Displacement	45.842 Litres
Bore/ Stroke	160x190mm
Dynamic Charging Alternator	55 AMP, 24V

#### ALTERNATOR SPECIFICATIONS

Alternator Make	AQT   Leroy Somer   STAMFORD
Alternator Model	AQT   LSA50.2M
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Insulation Class- Temp Rise	Cont. H-125/40C
Ingress Protection Rating	IP 23
Excitation System	AREP
AVR Model	D350

#### COMPLY WITH STANDARDS

ISO 3046, BS5514, DIN6271, NEMA-MGI, DINEN, BS5000, IEC60034, IEC60947-2

#### ALTERNATOR OPERATING DATA

Over speed	2250rpm
Voltage Regulation	+1%
Harmonic Coefficient THF	<2%
Tel. influence TIF	<50
Cooling airflow	1.8m <sup>3</sup> / Sec

#### Powered By:

**Perkins**

Diesel Generator

**STAMFORD**  
power generation

**LEROY-SOMER**

**meccalte**

**DSE**



+971 4 547 1703



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### Standard Specifications:

#### 6- Fuel Tank:

Capacity of fuel tank is for 8 hours running  
Built-in fuel tank up to 800kVA

#### 7- Circuit Breaker:

3 pole LS MCCB

#### 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 hours whichever occurs first 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, kVAh, kVARh)

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	4900	1870	2200	-	7550
CLOSED	6058	2438	2591	NA*	12611

### 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
Base frame RAL Color	RAL 9011
Noise Pressure level @ 7m	78db(A) @ 7mt



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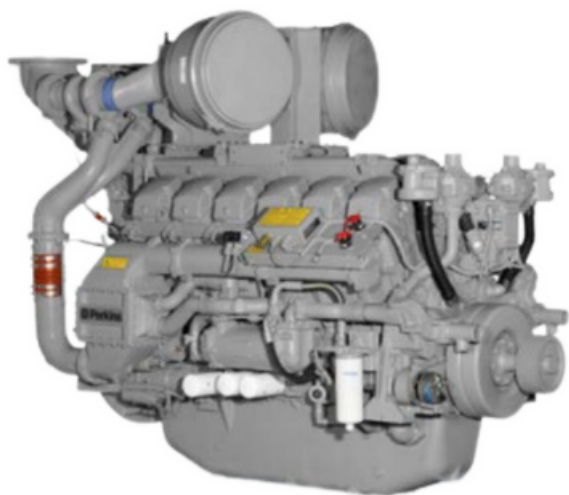


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## Engine:



### COOLING SYSTEM

Total Coolant Capacity(L)	196L
Cooling Fan Air Flow	1095m <sup>3</sup> / min
Radiator Fan Load	27kW
Heat Radiation to Room (PRP)	80KW
Heat Radiation to Room(ESP)	100 kW

### LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	153L
Oil type	API-CH-4 or ACEA E5

### EXHAUST SYSTEM

Muffler Type	Industrial Grade
Max. BackPressure	8kPa
Exhaust Gas Flow (PRP/ESP)	200 m <sup>3</sup> / min
Exhaust Gas Temperature	≤ 465 °C

### FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	298L/hr
Fuel Consumption 100% PRP	266L/hr
Fuel Consumption 75% PRP	209 L/hr
Fuel Consumption 50% PRP	143 L/hr

### AIR SYSTEM

Air Filter Type	Paper Element
Combustion Air Flow (PRP)	75 m <sup>3</sup> /min
Combustion Air Flow (ESP)	80.5 m <sup>3</sup> /min
Max Air Filter Intake Restriction	3.7 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):

- ☐ ATS cabinet
- ☐ 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 /double wall 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

## 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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## 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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