



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

**AQT GENERATORS**

www.aqtgenerators.com

# AQT-CU688

**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:

Cummins, 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

## Powered By:



**LEROY  
SOMER**

**STAMFORD**  
power generation



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

## Output Rating:

PRIME:		STANDBY:	
60 Hz—1800 Rpm 480 V, 3ph			
625 kVA	500 kW	688 kVA	550 kW

## ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	QSK19-G4
Type	4 cycle, 6-cylinder turbocharged
Bore mm	159 mm (6.25 in.)
Stroke Model	159 mm (6.25 in.)
Displacement	19 L
Flywheel Dimensions	SAE 0
Battery Charging Alternator	35 amps
Starting Voltage	24 volt, negative ground
Fuel System	Cummins direct injection MCR5
Fuel Filter	Spin-on fuel filters with water separator
Lube Oil Filter and Capacity (L)	Spin on full flow filter - 84 Litres

## ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer   Stamford
Alternator Model	HCI544F/S5L1D-F4
Number of Poles	4
Winding Pitch	2/3
Insulation Class - Temp Rise	H
Ingress Protection Rating	IP 23
Excitation System	Self Excited
AVR Model	AS440

## COMPLY WITH STANDARDS

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

## ALTERNATOR OPERATING DATA

Over speed	2250 rpm
Voltage Regulation	± 1%
Harmonic Coefficient THF	< 3.5%
Tel. influence TIF	< 50
Cooling air flow	1.12m <sup>3</sup> / Sec



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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 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 has 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                       | Generator/load current monitoring and protection (kW)                           |
| Multiple display languages                        | Breaker control via fascia buttons  |
| DSENET expansion compatible                       | Fuel and start outputs, configurable using can                                  |
| Data logging facility                             | 4 configurable DC outputs   |
| Fully configurable via PC using USB communication | 4 configurable analogue/digital inputs  |
| Front panel configuration                         | Automatically transfers between mains (utility) and generator                   |
| Efficient power save mode                         | Increased input and output expansion capability via dsenet                      |
| 3 phase generator sensing                         | IP65 rating (with optional gasket) offers increased resistance to water ingress |
| Accumulated power monitoring (kWh, kVA h, kVAh)   | 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	4175	1712.5	2375	1210	5785
CLOSED	5925	2305	2532.5	1210	8410

## 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	66db(A) @ 7mt



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## Engine:



### COOLPAC PERFORMANCE DATA

Cooling System Design	Air-Air Charge Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	} Engine only- not applicable
Limiting Ambient Temp.	
Fan Power Kw	
Cooling System Air Flow (m3/s)	
Air Cleaner Type	Dry replaceable element with restriction indicator

### FUEL CONSUMPTION 1800 (60 HZ)

Fuel Consumption @ 110%	165
Fuel Consumption @ 100%	143
Fuel Consumption @ 75%	109
Fuel Consumption @ 50%	77
Fuel Consumption @ 25%	43

## 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



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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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