

AQT-CU523

GENERATING SET

(TECHNICAL DATA SHEET)



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:









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

Output Rating:

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PRIME:		STANDBY:	
6 0 Hz—1800 Rpm	480 V, 3ph		
479 kVA	383 kW	523 kVA	418 kW

ENGINE SPECIFICATIONS	
Engine Make	CUMMINS
Engine Model	QSG12-G4
Туре	4 cycle, in-line, 6-cylinder turbocharged, air-cooled
Bore mm	132 mm (5.20 in.)
Stroke Model	144 mm (5.67 in.)
Displacement	11.8 litre (720 in.3)
Flywheel Dimensions	SAE1
Battery Charging Alternator	110 amps
Starting Voltage	24 volt
Fuel System	Cummins HPCR
Fuel Filter	Spin-on fuel filters with water separator
Lube Oil Filter and Capacity (L)	Spin on full flow filter - 34.1 Litres

ALTERNATOR SPECIFICATIONS	
Alternator Make	AQT Leroy Somer Stamford
Alternator Model	AQT TAL-047-A HC 444F/S4L1D-E41
Number of Poles	4
Winding Pitch	2/3
Insulation Class - Temp Rise	Н
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	0.76m3/ Sec	

Standard Specifications:

6- Fuel Tank:

Capacity of fuel tank is for 8-10 hours

Built in fuel tank up to 800 kVA

7- Circuit Breaker:

LS

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

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		

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, kVA h)

Generator/load current monitoring and protection (kW)

Breaker contol 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



DSE 6120

AUTO START & AUTO MAINS FAILURE CONTROL

Dimensions:

Туре	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	3400	1200	1700	670	3180
CLOSED	4420	1600	2260	670	4480



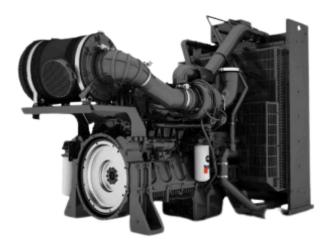








Engine:



COOLPAC PERFORMANCE DATA		
Cooling System Design	Air-Air Charge Cooled	
Coolant Ratio	50% ethylene gylcol; 50% water	
Coolant Capacity (L)	48.0	
Limiting Ambient Temp.	55 Degree Celsius	
Fan Power Kw	24.3	
Cooling System Air Flow (m3/s)	8.4	
Air Cleaner Type	Normal duty dry replaceable element with	
	restriction indicator	

FUEL CONSUMPTION 1800 (60 HZ)		
Fuel Consumption @ 110%	107	
Fuel Consumption @ 100%	96	
Fuel Consumption @ 75%	69	
Fuel Consumption @ 50%	47	
Fuel Consumption @ 25%	26	

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 \diamondsuit 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:

Exhaust Muffler: Residential grade Critical grade Hospital grade Available for voltages:

Fuel Transfer pump

Single /double wall fuel tank (500-5000 L)

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".



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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