

AQT-850

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:

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

Powered By:

Serkins

Diesel Generator power generation

LEROY-SOMER







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

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PRIME:		STANDBY:	
50 Hz—1500 Rpn	n 400 V, 3ph		
770 kVA	616 kW	850 kVA	680 kW

ENGINE SPECIFICATIONS	
Engine Make	PERKINS
Engine Model	2806A-E18TTAG5
No. of Cylinders	6 vertical in-line
Cycle	4 Stroke
Aspiration	Turbocharged & air to air charged cooled
Cooling Method	Water cooled
Governing Type	Electronic
Governing Class	ISO 8528-5 class G2
Compression Ratio	14:1
Displacement	18.1 litres
Bore/Stroke	145 x 183 mm
Dynamic Charging Alternator	55AMP, 24V

ALTERNATOR SPECIFICATIONS	
Alternator Make	AQT I Leroy Somer STAMFORD
Alternator Model	AQT I TAL-A49 C S6L1D-C41
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

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	<u>+</u> 1%	
Harmonic Coefficient THF	< 2%	
Tel. influence TIF	< 50	
Cooling air flow	1.0 m3/ Sec	

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

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	,
Lifting	ISO Standard Lifting
Canopy RAL Color	TAL 9010
Base frame RAL Color	RAL 9011
Noise Pressure level @ 7r	m 86 dB(A)±3dB(A)

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 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)

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:

Туре	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	3650	2295	2690	1430	5875
CLOSED	5873	2224	2817	1835	8000

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







Engine:



Perkins heavy duty high performance industrial type diesel engine.

m3/ min
V
N
V
On Full Flow
H-4 or ACEA E5
trial Grade
n3/ min
OC
A2 Diesel
_/hr
_/hr
L/hr
_/hr
nted air filter
3/min
3/min
•

Opti	onal configurations:
Engi	ne accessories: Heavy-duty air filter Coolant heater Lubricant oil heater Fuel and Water Separator Lube oil rotary pump
Alte	rnator And Accessories:
	Leroy somer/stamford Anti condensation heater PMG + AVR Double bearing Alternator High voltagekV RTDs for Bearing and winding
Coo	ling System:
	55 degree Radiator Remote Radiator
Con	trol System:
	AMF
	Parallel
	Practical type in low temperature environment Control Screen Heater
	Remote Annunciators
Ō	Other (ComP, DEIF)
Circ	uit Breaker:
	3/4 poles
	Fixed/handcart type
	Electric mechanism
Auto	omatic Transfer Switch (ATS):
	ATS cabinet
	Contractor type ATS
	Motorized changeover type ATS
Star	t Battery:
	Nickel-cadmium battery
	Maintenance-free battery
	Battery charger and selector switch
	Charging current meter
_	rnal Fuel Tank:
	Single /double wall fuel tank (500-5000 L) Fuel Transfer pump
Exha	ust Muffler:
	Residential grade
П	Critical grade Hospital grade
_	
Avai	ilable for voltages :
	400/230V, 480/277V, 380/220V, 440/254V, 416/240V,220/127V, 208/120V





De-rating may apply.

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



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