



AQT-2500

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.
 o 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

Output Rating:

PRIME:		STANDBY:	
50 Hz—1500 Rpm	400 V, 3ph		
2250 kVA	1800 kW	2500 kVA	2000 kW
60 Hz—1800 Rpm	480 V, 3ph		

ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	4016-61TRG3
No. of Cylinders	16 60° Vee form
Cycle	4 Stroke
Aspiration	Quad turbocharged. air to water charge
Cooling Method	Water cooled
Governing Type	Electronic
Governing Class	G2 - ISO 8528 Part 1
Compression Ratio	13:1
Displacement	61.123 litres
Bore/Stroke	160 x 190 mm
Dynamic Charging Alternator	55 AMP, 24V

ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer STAMFORD AQT
Alternator Model	LSA52.3 L9
Number of Poles	4
Number of Winding Leads	12
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	Cont. H - 125/40 C
Ingress Protection Rating	IP 23
Excitation System	AREP + PMI
AVR Model	D 510C

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	+ 0.5%
Harmonic Coefficient THF	< 2%
Tel. influence TIF	< 50
Cooling air flow	2.5 m ³ /Sec

Powered By:



Diesel Generator



LEROY-SOMER



Standard Specifications:

6- Fuel Tank:

Capacity of fuel tank is for 8 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	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	TBD

Control System:

Large back-lit text display
(4-Line back-lit LCD 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 (kW h, kVA h, kVAR h)
Generator/load current monitoring and protection
Generator overload protection (kW)
Breaker control via fascia buttons

Fuel and start outputs, configurable when using CAN
8 configurable DC outputs
9 configurable analogue/digital inputs
Automatically transfers between mains (utility) and generator (DSE7320 MKII only)
Increased input and output expansion capability via DSENet®
IP65 rating (with optional gasket) offers increased resistance to water ingress
DIGITAL INPUTS
ANALOGUE INPUT



DSE7320 MKII
AUTO START & AUTO MAINS
FAILURE CONTROL

Dimensions:

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN					
CLOSED	12192	2438	2896	NA*	27500



Engine:



Perkins heavy duty high performance industrial type diesel engine.

COOLING SYSTEM

Total Coolant Capacity (L)	492 L
Cooling Fan Air Flow	2430 m ³ / min
Radiator Fan Load	100 kW
Heat Radiation to Room (PRP)	105 Kw
Heat Radiation to Room (ESP)	109 kW

LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	213 L
Oil Type	API-CH-4 or ACEA E5

EXHAUST SYSTEM

Muffler Type	Industrial Grade
Max. Back Pressure	3.0 kPa
Exhaust Gas Flow (PRP/ESP)	387 m ³ / min
Exhaust Gas Temperature	≤ 493 °C

FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	529 L/hr
Fuel Consumption 100% PRP	470 L/hr
Fuel Consumption 75% PRP	344 L/hr
Fuel Consumption 50% PRP	234 L/hr

AIR SYSTEM

Air Filter Type	Cylindrical paper pleat
Combustion Air Flow (PRP)	132 m ³ /min
Combustion Air Flow (ESP)	145 m ³ /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