

Generating Set

TECHNICAL DATA SHEET

AOC700

Prime Power Standby Power		Standby Power**	Voltage/Ph	Hz/rpm***	PF
	636kVA/509 kWe	700kVA/560 kWe	400/3Ph	50/1500	0.8

Prime power*

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.

Standby power**

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.

Available in 60HZ for all voltage ratings.***

Standard Reference Conditions

Note: Standard reference conditions 40°C (104°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

Diesel Generator Set		
Engine Make /Model	Cummins VTA28-G5	
Alternator Make /Model	Stamford HCI544F/S5L1D-F4	
Control Panel	DSE6120	
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant	
Circuit Breaker Type	3 Pole MCCB (4P Available as optional)	
Built in Base Fuel Tank Capacity	1030L	
Battery	Maintenance free Lead Acid	

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	5791	1722	3270	7550
Open Type	3875	1731	2556	5660

LUBRICATION SYSTEM

Oil Filter Type

ENGINE SPECIFICATIO	NS		
Engine Make Model	Cummins VTA28-G5		
No. of Cylinders	12 vertical in-line		
Cycle	4 Strok	æ	
Aspiration	Turbocharged & Aftercooled		
Cooling Method	Water	cooled	
Governing Type	Electro	onic	
Governing Class	G2 - IS	O 8528 Part 1	
Compression Ratio 1		13.1:1.0	
Displacement	28.0 L / 1710 in ³		
Bore/Stroke (mm / in)	(140/152) / (5.5/6.0)		
Dynamic Charging Alternator	35AMP, 24V		
COOLING SYSTEM			
Total Coolant Capacity (L)		80 L	
Water Pump Type		Centrifugal eng-driven	
Radiator Fan Load		19.6 kW	
Heat Radiation to Room (PRP)		84KW	
Heat Radiation to Room (ESP)		94KW	
Comply with Standards			

Total Oil Capacity	83 L	
Oil Type	API-CH-4 or SAE 15W-40	
AIR SYSTEM		
Air Filter Type	Dry Element	
Combustion Air Flow (PRP)	49.56 m³/min	
Combustion Air Flow (ESP)	52.68 m³/min	
Radiator Air Flow	750 m³/min	
Restriction		
EXHAUST SYSTEM		
Muffler Type	Industrial Grade	
Max. Back Pressure	10.13 kPa	
Exhaust Gas Flow (PRP/ESP)	119.22/122.88 m³/min	
Exhaust Gas Temperature (PRP/ESP	493/507°C)	

Spin-On Full Flow

Comply with Standards

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

Powered By:











Silent / Closed Type

Image for illustration purposes only.

1. Features & Benefits:

- AQC Gen set is powered by Cummins engine ,the world leader having over 85 years of innovation and excellence, with customers support in 182 countries from 3500 outlets.
- AQC Gen set is powered by Stamford Alternator, the Global number 1 in Alternators, with over 99 years of Experience
- AQP Gen set is equipped with DSE controller, one of the world's top manufacturers in UK, having over 40 years of excellence, the most advanced and user friendly controller
- Low fuel consumption, saving on fuel spend
- Compact and rugged design, saving on transport and storage cost
- Designed to occupy less space considering critical applications and cities where space is at a premium.
- Low noise and vibration, considering critical applications where noise level matters
- Easy maintenance and long service intervals, saving on maintenance cost
- Subject to rigorous tests including load acceptance, cooling, vibration and noise level prior shipment to customer.
- Simple to operate and environment friendly in worst ambient conditions
- Equipped with built-in fuel tank sufficient for 8 to 10 hours of operations.
- Fully Engineering wide range of optional accessories available.

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AQC700



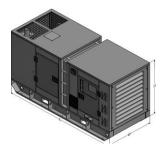
PERKINS Engine 2806A-E18TAG2



Leroy Somer TAL-047-F



DSE7320 MKII AUTO START & AUTO MAINS



AOGT ENCLOSURE / CANOPY

Engine Fuel System		
Recommended Fuel	Class A2 Diesel	
Fuel Consumption Standby	154 L/hr	
Fuel Consumption 100% PRP	140 L/hr	
Fuel Consumption 75% PRP	104 L/hr	
Fuel Consumption 50% PRP	73 L/hr	

ALTERNATOR SPECIFICATION	ONS
Alternator Make /Model	Stamford HCI544F/S5L1D- F4
AVR Model	AS440
Number of Poles	4
Number of Winding Leads	12
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	н/н
Efficiency	94.8%
Ingress Protection Rating	IP 23
Excitation System	Self Excited
Voltage Regulation	+/- 1%
Cooling air flow	0.9 m³/ Sec
Overspeed	2250 r.p.m

Controller Make & Model		DeepSea 6120
Operation Mode		AMF
Display		aphic Back-lit LCD 32x64) pixles
Ingress Protection Rating		IP65
Binary Inputs/Outputs		9/8
Analog Inputs		4
Measurement		Vac, A, Hz, kVA, kW, Vdc
Event Log		Alarms log, Hrs log
Communication		USB

Please refer to Controller Data Sheet for more details.

ENCLOSURE SPECIFICATIONS		
Enclosure Type	Acoustic & Weather Proof	
Anitcorrosive Protection Polyester Powder Coated Galvanized Sheet		
Ingress Protection	IP 23	
Lifting	ISO Standard Lifting	
Canopy RAL Color	RAL 2000	
Base frame RAL Color	RAL 9011	
Noise Pressure level @	85db(A) @ 7 mt	

Distributed & Serviced by:





Open Type
Image for illustration purposes only.

2. WARRANTY POLICY:

- Al Qabandi Generator technology products has a warranty for all prime equipment, limited to 2000 running hours or 12 months warranty & For Standby equipment, Limited to 500 running hours or 12 months warranty whichever occur first against manufacturing defect.
- or 12 months warranty whichever occur first against manufacturing defect.

 Wearing parts (filters), incorrect manmade operation, Back up Genset maintenance failures are excluded from the warranty policy

3. DOCUMENTAION

Operation and Maintenance Manual, GAD, Wiring Diagram & FAT Report are Accompanied with Genset.

4. OPTIONAL FEATURES

A. Engine

- Heavy-Duty Air Filter
- Coolant Heater
- Lubricant Oil Heater
- Fuel and Water Separator
- Lube Oil Rotary Pump

B. Alternator

- Anti Condensation Heater
- PMG + AVR
- Double Bearing Alternator
- RTDs For Bearing and Winding

C. Cooling System:

- 55 degree Radiator
- Remote Radiator

D. Control System:

- AMF / Parallel
- Remote Annunciators
- 4 p manual/Motorized Circuit breaker

E. Automatic Transfer Switch (ATS):

- Contractor or Breaker type ATS
 - Motorized changeover type ATS

F. Start Battery:

- Nickel-cadmium battery
- Maintenance-free battery
- Battery charger and selector switch
- Charging current meter

G. Exhaust Muffler:

- Residential grade
- Critical grade
- Hospital grade

H. Available for voltages:

400/230V,480/277V,380/220V,440/254V, 416/240V,220/127V, 208/120V

Due to continuous research & product development, we reserve the right to change specification with out notice

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