

QASWAA AL-  
BARARRY



قصواء البراري

**ENERGY ON DEMAND**  
**QBO 1700 - 1900**

**GENSET-SPECIFICATIONS**

• Model	ENERGY ON DEMAND / QBO 1700-1900
• Serial number	
• Prime power (KW)	1502.0 KWe
• Prime Capacity (KVA)	1752.0 KVA
• Load Acceptance	1392.0 KVA
• Frequency	50 Hz.
• Voltage	24 V.
• Year of Manufacturing	2010
• Country of origin	Assemble in BAGHDAD
• Inlet air temperature (c°)	55 c°
• Relative Humidity	93 % RH @ 40c°
• Altitude above sea level	≤1000 m

**ENGINE- SPECIFICATIONS**

• Engine type (Manufacturer)	Diesel engine
• Engine model	Perkins 4016TAG
• Serial number	
• Cylinders (No. , Arrangement)	16: 60° Vee form
• Cycle	4 stroke
• Compression ratio	13.6:1
• Torque	N/A
• Bore and Stroke (mm)	160 x 190
• Direction of rotation	Anti-clockwise viewed on flywheel end
• Combustion type	Direct injection
• Displacement	61.123 liters
• Engine power (KW)	Gross: 1502 KWm      Net: 1460 KWm
• Inlet air temperature (c°)	55 c°
• Relative Humidity	93 % RH @ 40c°
• Altitude above sea level	≤1000 m
• Year of Manufacturing	2010
• Country of origin	United Kingdom. (U.K.)
• Cooling type	Water cooled
• Total coolant capacity	255 liters

• Aspiration type	Turbocharged air to water charge cooled		
• Air cooling type	Mounted air filter and turbocharger –Integral charge cooler		
• Water separator	Available		
• Air filter type	Dry		
• Type of fuel governing system	<ul style="list-style-type: none"> <li>▪ Unit fuel injectors with lift pump and hand stop control</li> <li>▪ Electronic governor to ISO 3046 Part 4 class A1</li> <li>▪ Full-flow spin-on fuel oil filters</li> </ul>		
• Speed	1500		
• Type of injection	Fuel injection		
• Silencer type	External		
• Fuel consumption (Full load)	356 Liters/hr.		
• Oil consumption	0.51 G/KWhr.		
• Lube oil capacity	237.2 Liters		
• Radiator cooling air flow	2058 m <sup>3</sup> /min.		
• Max exhaust gas flow	353.0 m <sup>3</sup> /min.		
• Diesel fuel specification	Diesel fuel according to BS2869 Class or equivalent		
• Lubrication oil specification	Lubricating oil is according to API CH4 (15W/40)		
• Dimensions (mm)	Length: 4460	Width: 2245	Height: 2749
• Total weight (Dry)	6900.0 kg.		

### ALTERNATOR- SPECIFICATIONS

• Type (Manufacturing)	Leroy Somer		
• Country of origin	ALL FACTORIES OF LEROY SOMER IN THE WORLD		
• Model	LSA 51.2 S55		
• Serial number			
• Ratings (KW,KVA – Continues)	1440.0 kw	1800.0 KVA	
• Voltage line to line	Y 380v.	Δ 230v.	
• Frequency	50 Hz.		
• Number of phases	3 Ph. (Y)		
• Number of poles	4 Poles.		
• Insulation class/ T° rise	H		
• Wires	12		
• Drip proof	IP 23		
• Number of bearings	Single bearing		
• Ambient Temperature (c°)	55 c°		
• Relative humidity	92 %		
• Altitude above sea level	1000 Meters		
• Over speed	2250 min <sup>-1</sup>		
• Air flow	2.5 m <sup>3</sup> /s.		
• Excitation system	Shunt	Arep + PMI	
• A.V.R. model	---	R449	
• Voltage regulation (Steady state)	± 0.5 %		
• Sustained short - Circuit current	300% (3 IN) : 10s		
• Total harmonic (*) TGH/THC	< 2.5 %		
• Power factor	0.8		

Efficiency (%) Class (H) at P.F.=0.8	75%= 96	100%= 95.5			
• No load Excitation current (A) (SHUNT/AREP)	1.5				
• Full load Excitation current (A) (SHUNT/AREP)	6				
• Full load Excitation voltage (V) (SHUNT/AREP)	63				
• Delivering current to start motor for ten sec.(A)	N/A				
• No load losses (KW)	16				
• Heat rejection (KW)	46.7				
• Dimensions	L- 1677	LB- 1655	B- 900	V- 744	XG- 735
• Total weight	3745 Kg.				

### CONTROL PANEL- SPECIFICATIONS

• Type (Manufacturer)	DEEP SEA ELECTRONIC			
• Model	DSE6110			
• Country of origin	United Kingdom (U.K.)			
• Protections	Available all Options			
• Monitoring	Available			
• Ability of auto starting	Available			
• Programming I/Ps & O/Ps	N/A			
• DC supply range	8v. to 35v. Continuous.			
• Standby current	88mA at 12v.	50mA at 24v.		
• Max. Operation temperature (c°)	+70 c° - Hot	-30 c° - Cold		
• Maximum humidity	93 % RH @ 40c°			
• No. of errors log	More than 20			
• Analogue input range	15v. to 333v.AC(L-N) absolute maximum 50Hz-60Hz (min 15 v. AC)			
• Three Phase current control range (CT input)	Available			
• Generator voltage control range	0.5v. RMS minimum			
• Documentation for the installation and setup	Documented with files			

### ATS OR MTS- SPECIFICATIONS

• Type of operation	Auto. & Manual.
• Capacity	9 KVA to 2500 KVA
• Components	Relays, Contactors, Auxiliaries, Timers, Reader, Phase filler, Lamps, Selectors, Emergency stop & Looms.
• Country of origin	Europe.