

**QASWAA AL-  
BARARRY**



**قصواء البراري**

**ENERGY ON DEMAND  
QBO 730 - 800**

**GENSET-SPECIFICATIONS**

• Model	ENERGY ON DEMAND / QBO 730-800	
• Serial number		
• Prime power (KW)	600.0 KWe	
• Prime Capacity (KVA)	750 KVA	
• Load Acceptance	600.0 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 4006C-23TAG2A	
• Serial number		
• Cylinders (No. , Arrangement)	6: Vertical in-line	
• 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	
• Combustion type	Direct injection	
• Displacement	22.92 liters	
• Engine power (KW)	Gross: 658 KWm	Net: 632 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	105 liters	

• Aspiration type	Turbocharged air to air charge cooled		
• Air cooling type	Mounted air filter and turbocharger		
• Water separator	Available		
• Air filter type	Dry		
• Type of fuel governing system	Rotary type pump		
• Speed	1500		
• Type of injection	Fuel injection		
• Silencer type	External		
• Fuel consumption (Full load)	157 Liters/hr.		
• Oil consumption	0.1 of fuel consumption		
• Lube oil capacity	113.4 Liters		
• Radiator cooling air flow	1200 m <sup>3</sup> /min.		
• Max exhaust gas flow	180.0 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: 3027	Width: 1706	Height: 1964
• Total weight (Dry)	2524.0 kg.		

### ALTERNATOR- SPECIFICATIONS

• Type (Manufacturing)	Leroy Somer		
• Country of origin	ALL FACTORIES OF LEROY SOMER IN THE WORLD		
• Model	LSA 49.1 M6		
• Serial number			
• Ratings (KW,KVA – Continues)	580.0 kw	725.0 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°)	N/A		
• Relative humidity	92 %		
• Altitude above sea level	1000 Meters		
• Over speed	2250 min <sup>-1</sup>		
• Air flow	1.0 m <sup>3</sup> /s.		
• Excitation system	Shunt	Arep or PMG	
• A.V.R. model	---	R448	
• Voltage regulation (Steady state)	± 0.5 %		
• Sustained short - Circuit current	300% (3 IN) : 10s		
• Total harmonic (*) TGH/THC	at no load < 4 % - on load < 4 %		
• Power factor	0.8		
• Efficiency (%) Class (H) at P.F.=0.8	N/A		

• No load Excitation current (A) (SHUNT/AREP)	0.9		
• Full load Excitation current (A) (SHUNT/AREP)	3.2		
• Full load Excitation voltage (V) (SHUNT/AREP)	38		
• Delivering current to start motor for ten sec.(A)	N/A		
• No load losses (W)	9000		
• Heat rejection (W)	32740		
• Dimensions	L/1415	LB/1372	C/650 XG/670
• Total weight	1645 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, Auxilarries, Timers, Reader, Phase filler, Lamps, Selectors, Emergency stop & Looms.
• Country of origin	Europe.