

QASWAA AL-BARARRY



قصواء البراري

**ENERGY ON DEMAND**  
**QBO 400 - 450**

**GENSET-SPECIFICATIONS**

• Model	ENERGY ON DEMAND / QBO 400-450	
• Serial number		
• Prime power (KW)	320.0 KWe	
• Prime Capacity (KVA)	400.0 KVA	
• Load Acceptance	375.0 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 Meters	

**ENGINE- SPECIFICATIONS**

• Engine type (Manufacturer)	Diesel engine	
• Engine model	Perkins 2206A-E13TAG3	
• Serial number		
• Cylinders (No. , Arrangement)	6: Vertical in-line	
• Cycle	4 stroke	
• Compression ratio	16.3:1	
• Torque	N/A	
• Bore and Stroke (mm)	130 x 157	
• Direction of rotation	Anti-clockwise viewed on flywheel	
• Combustion type	Direct injection	
• Displacement	12.5 liters	
• Engine power (KW)	Gross: 368 KWm	Net: 349 KWm
• Inlet air temperature (c°)	55 c°	
• Relative Humidity	93 % RH @ 40c°	
• Altitude above sea level	1000 Meters	
• Year of Manufacturing	2010	
• Country of origin	United Kingdom. (U.K.)	
• Cooling type	Water cooled	
• Total coolant capacity	51.4 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)	81 Liters/hr.	
• Oil consumption	0.1 of fuel consumption	
• Lube oil capacity	68 Liters	
• Fuel tank capacity	600 Liters	
• Radiator cooling air flow	438 m <sup>3</sup> /min.	
• Max exhaust gas flow	60.2 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: 2410	Width: 1120    Height: 1725
• Total weight (Dry)	1520.0 kg.	

### ALTERNATOR- SPECIFICATIONS

• Type (Manufacturing)	Leroy Somer	
• Country of origin	ALL FACTORIES OF LEROY SOMER IN THE WORLD	
• Model	LSA 47.2 S4	
• Serial number		
• Ratings (KW,KVA – Continues)	325.0 kw	410.0 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	0.90 m <sup>3</sup> /s.	
• Excitation system	Shunt	Arep or PMG
• A.V.R. model	R 230	R448
• Voltage regulation (Steady state)	± 0.5 %	
• Sustained short - Circuit current	300% (3 IN) : 10s	
• Total harmonic (*) TGH/THC	at no load < 1.5 % - on load < 2 %	
• 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)	3.5		
• Full load Excitation voltage (V) (SHUNT/AREP)	35		
• Delivering current to start motor for ten sec.(A)	N/A		
• No load losses (W)	5690		
• Heat rejection (W)	20470		
• Dimensions	L/1101	LB/1056	XG/471
• Total weight	1113 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.