

QASWAA AL-BARARRY



قصواء البراري

**ENERGY ON DEMAND**  
**QBO 45 - 50**

**GENSET-SPECIFICATIONS**

• Model	ENERGY ON DEMAND / QBO 45-49
• Serial number	
• Prime power (KW)	36.0 KWe
• Prime Capacity (KVA)	45.0 KVA
• Load Acceptance	42.0 KVA
• Frequency	50 Hz.
• Voltage	12 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 1103A-33TG1
• Serial number	105 x127
• Cylinders (No. , Arrangement)	3: Vertical in-line
• Cycle	4 stroke
• Compression ratio	17.25:1
• Torque	N/A
• Bore and Stroke (mm)	105 x 127
• Direction of rotation	Anti-clockwise viewed on flywheel water cooled
• Combustion type	Direct injection
• Displacement	3.3 liters
• Engine power (KW)	Gross: 42.2 KWm      Net: 41.3 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	10.2 Liters

• Aspiration type	Turbocharged	
• Air cooling type	Mounted air filter	
• Water separator	N/A	
• Air filter type	Dray	
• Type of fuel governing system	Rotary type pump	
• Speed	1500	
• Type of injection	Fuel injection	
• Silencer type	External	
• Fuel consumption (Full load)	7.1 Liters/hr.	
• Oil consumption	0.15 of fuel consumption	
• Lube oil capacity	10.7 Liters	
• Fuel tank capacity	175 Liters	
• Radiator cooling air flow	53.0 m <sup>3</sup> /min.	
• Max exhaust gas flow	7.0 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: 1049	Width: 634    Height: 951
• Total weight (Dry)	420.0 kg.	

### ALTERNATOR- SPECIFICATIONS

• Type (Manufacturing)	Leroy Somer	
• Country of origin	ALL FACTORIES OF LEROY SOMER IN THE WORLD	
• Model	LSA 43.2 S25	
• Serial number		
• Ratings (KW,KVA – Continues)	36.0 kw	45.0 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	0.27 m <sup>3</sup> /s.	
• Excitation system	Shunt	Arep
• A.V.R. model	R 230	R438
• Voltage regulation (Steady state)	± 0.5 %	
• Sustained short - Circuit current	300% (3 IN) : 10s	
• Total harmonic (*) TGH/THC	at no load < 2 % - on load < 2 %	
• Power factor	0.8	

• Efficiency (%) Class (H) at P.F.=0.8	75 % = 90.0	100 % = 89.0
• No load Excitation current (A) (SHUNT/AREP)	0,5/1	
• Full load Excitation current (A) (SHUNT/AREP)	1,6/3,2	
• Full load Excitation voltage (V) (SHUNT/AREP)	30/15	
• Delivering current to start motor for ten sec.(A)	N/A	
• No load losses (W)	680	
• Heat rejection (W)	3100	
• Dimensions	L/595	LB/533
		XG/260
• Total weight	155 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		

### ATS OR MTS- SPECIFICATIONS

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