

QASWAA AL-BARARRY



قصواء البراري

ENERGY ON DEMAND
QBO 20 - 22

GENSET-SPECIFICATIONS

• Model	ENERGY ON DEMAND / QBO 20-22	
• Serial number		
• Prime power (KW)	16.0 KWe	
• Prime Capacity (KVA)	20.0 KVA	
• Load Acceptance	19.0 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 404C-22G	
• Serial number		
• Cylinders (No. , Arrangement)	4: Vertical in-line	
• Cycle	4 stroke	
• Compression ratio	23.3:1	
• Torque	N/A	
• Bore and Stroke (mm)	84 x 1090 mm	
• Direction of rotation	Anti-clockwise viewed on flywheel water cooled	
• Combustion type	Indirect injection	
• Displacement	2.216 liters	
• Engine power (KW)	Gross: 18.7 KWm	Net: 18.4 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	7.0 Liters	

• Aspiration type	Naturally aspirated	
• Air cooling type	Mounted air filter	
• Water separator	N/A	
• Air filter type	Dry	
• Type of fuel governing system	Mechanically governed cassette type fuel injection pump.	
• Speed	1500	
• Type of injection	Fuel injection	
• Silencer type	External	
• Fuel consumption (Full load)	4.7 Liters/hr.	
• Oil consumption	0.1 of fuel consumption	
• Lube oil capacity	10.6 Liters	
• Fuel tank capacity	105 Liters	
• Radiator cooling air flow	40.2 m ³ /min.	
• Max exhaust gas flow	3.64 m ³ /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: 915	Width: 477 Height: 840
• Total weight (Dry)	242.0 kg.	

ALTERNATOR- SPECIFICATIONS

• Type (Manufacturing)	Leroy Somer	
• Country of origin	ALL FACTORIES OF LEROY SOMER IN THE WORLD	
• Model	LSA 42.2 M5	
• Serial number		
• Ratings (KW,KVA – Continues)	20.0 kw	16.0 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 ⁻¹	
• Air flow	0.15 m ³ /s.	
• Excitation system	Shunt	
• A.V.R. model	R 438	
• Voltage regulation (Steady state)	± 0.5 %	
• Sustained short - Circuit current	-	
• Total harmonic (*) TGH/THC	<4%	
• Power factor	0.8	

• Efficiency (%) Class (H) at P.F.=0.8	75 % = 87,9	100 % = 87,0
• No load Excitation current (A) (SHUNT/AREP)	0,6/0,9	
• Full load Excitation current (A) (SHUNT/AREP)	1,6/2,3	
• Full load Excitation voltage (V) (SHUNT/AREP)	40/14	
• Delivering current to start motor for ten sec.(A)	N/A	
• No load losses (W)	590	
• Heat rejection (W)	2400	
• Dimensions	L/510	LB/4448
		XG/220
• Total weight	125 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.	88mA at 12v.
• Max. Operation temperature (c°)	+70 c° - Hot	+70 c° - Hot
• 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.