

QASWAA AL-
BARARRY



قصواء البراري

ENERGY ON DEMAND
QBO 635 - 700

GENSET-SPECIFICATIONS

• Model	ENERGY ON DEMAND / QBO 635-700
• Serial number	
• Prime power (KW)	508.0 KWe
• Prime Capacity (KVA)	635 KVA
• Load Acceptance	500.0 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 2806C-E18TAG2
• Serial number	
• Cylinders (No. , Arrangement)	6: Vertical in-line
• Cycle	4 stroke
• Compression ratio	14.5:1
• Torque	N/A
• Bore and Stroke (mm)	145 x 183
• Direction of rotation	Anti-clockwise viewed on flywheel
• Combustion type	Direct injection
• Displacement	18.1 liters
• Engine power (KW)	Gross: 550 KWm Net: 542 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	61.0 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)	132 Liters/hr.		
• Oil consumption	0.1 of fuel consumption		
• Lube oil capacity	61.0 Liters		
• Fuel tank capacity	790 Liters		
• Radiator cooling air flow	702 m ³ /min.		
• Max exhaust gas flow	114.0 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: 2545	Width: 1536	Height: 1808
• Total weight (Dry)	1832.0 kg.		

ALTERNATOR- SPECIFICATIONS

• Type (Manufacturing)	Leroy Somer		
• Country of origin	ALL FACTORIES OF LEROY SOMER IN THE WORLD		
• Model	LSA 49.1 S4		
• Serial number			
• Ratings (KW,KVA – Continues)	529.0 kw	661.0 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	1.0 m ³ /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)	3.6		
• Full load Excitation voltage (V) (SHUNT/AREP)	43		
• Delivering current to start motor for ten sec.(A)	N/A		
• No load losses (W)	8110		
• Heat rejection (W)	33710		
• Dimensions	L/1315	LB/1272	C/560 XG/635
• Total weight	1445 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.