

Technical Offer

Egyptian European Power Technology "ATOS" is specialized in the manufacture of power generating units since 1988.

Through years of development, we have formed an integrated chain starting from production, sales, and maintenance to customer service.

To meet the clients' diesel generator requirements, ATOS has set up and implemented a well-regulated management system target towards competitive prices, excellence in quality and reputable service in long-run plan.

The offer include the following:-

- Gen-set ATV3.450
- Warranty.
- After Sales Service.

Gen-set :	Model :	ATV3.450			
	Rated power:	Prime Power (PRP)		Standby rating (ESP)	
		KVA	KW	KVA	KW
		455	364	500	400

Specification

GENERATING SET Frequency	50 Hz
VOLTAGE	380 V
PHASES	Three
POWER FACTOR	0.80 PF
Daily fuel tank	sufficient for 8 h operation at prime power
Battery	Lead acid
Gen-set construction	Gen-set Mounted on a base frame with integral anti-vibration mountings and lifting points. The Gen-Set has standard safety labels

ENGINE :	
Manufacturer	Volvo
Model	TAD1640GE
Origin	Germany
Eng. Rate prime power	534 BHP – 393 KWM
Cycle	Four stroke
Number of cylinders	6 cylinders
Speed	1500 RPM
Combustion system	direct injection
Cooling system	Water Cooled
Fuel Consumption	194 g/kwh @ prime power
Electrical System	24 V

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271.
Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 class G3

ALTERNATOR :

Manufacturer	Stamford
Model	S4L1D-G41
Origin	UK
Prime Rated Power	450 KVA – 360 KW
Insulation Class	Class (H)
Temp. rise Class	Class (H)
Ambient Temperature	40 °C
Degree of Protection	IP 23
Power Factor	0.8 PF
Voltage Output 50 Hz	400 V
No of Phases	3
No of Bearings	Single bearing
No of Poles	4
Efficiency	93.3 %
Control System	Self-Excited

Stamford industrial generators meet the requirements of BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359.

The Control Panel:

Construction:

- The control panel will be flexibly set mounted with a front opening door with protection equivalent to IP42.
- The panel is made of steel sheet with electrostatic paint and totally isolation.
- The panel designed to be manually, automatically operated and also can be at off mode for safety and maintenance.

Gen set circuit breaker:

Three poles molded case circuit breaker (800 A) provides thermal and magnetic protection in case of overload or short-circuit conditions

The panel contains DSE 7110 digital control unit

- Auto Start Control Module
- Measure, protect and indicate the following:

Control functions:	
Auto mode	Sleep mode
Off mode	Manual mode
Emergency stop switch	Fault History
Cycle cranking	LED indicating lamp
Time delay Start / stop (cool down)	Digital output voltage regulation
U/O Voltage sensor	U/O Frequency sensor

Engine Monitoring Equipment:	
Oil pressure	Engine temperature
Engine speed	Plant battery volts
Running hours	Intake manifold temperature
Alternator Monitoring Equipment:	
Mains Volts (Ph-Ph/Ph-N)	Generator Ampere (L1, L2, L3)
Generator Volts (L-L / L-N)	Generator kVA, kWh
Generator Frequency (Hz)	Power factor
Generator kW as % of rated kW setting	kVAR

Alarms	
Over and Under Speed	Over Current
Low and High Battery Volt	Under / Over Generator Voltage
Start and Stop Failure	Over Current
Charge fail	Low Oil Pressure
Emergency stop	High engine temperature
kW overload	Unbalanced load

Warranty:

- The Offered engines and attachments are warranted against faulty of manufacturing for a period of **One year** from delivery date or **1000 working hours** whichever is closer
- Atos 's Warranty obligations hereunder shall exclude all consumable items, including but not limited to oil, grease, fuel, belts and filters, which will be provided by the customer or purchased by the customer

After sales service:

- We provide our customers a permanent stock of full units and spare parts to serve all types of equipment.
- Call center provide technical support service **24/7**.
- We continue to offer job qualified and equipped maintenance workshops qualifies them for all acts of reforms in record time and the highest degree of efficiency.
- We concluding maintenance contracts for all generators.