



**ATA**

Makes Life Brighter

*Generators & Switchgear Solutions*

# ATA Perkins, 2806A-E18TAG1A, 600 KVA

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	600	480	540	724	522	700
	Standby power	660	528	593	795	574	770

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
Standby power	201	134
Prime power	203	123
Baseload power	199	90
75%	199	90
50%	203	61

Engine package weights and dimensions		
Length	2545 mm	100 in
Width	1536 mm	60.5 in
Height	1808 mm	71 in
Weight (dry)	2050 kg	4519 lb

Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	145 x 183 mm	5.7 x 7.2 in
Displacement	18.1 litres	1104 in <sup>3</sup>
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	14.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	62 litres	16.4 US gal
Cooling system	Water-cooled	
Total coolant capacity	61 litres	16.1 US gal

### Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank ( L )	Weight (KG)
Open	4175	1712.5	2375	1210	5785
Closed	5925	2305	2532.5	1210	8410

UAE, Sharjah Airport, Saif Zone Warehouse 2, Street 14

Mobile: +971502296962

E-mail: [Info@ataswg.com](mailto:Info@ataswg.com)

Website: [www.ataswg.com](http://www.ataswg.com)



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### Technical information

#### Air inlet

- Mounted air filter

#### Fuel system

- Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control
- Governing to ISO 8528-5 class G2 with isochronous capability
- Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator
- Fuel cooler

#### Lubrication system

- Wet sump with filler and dipstick
- Full-flow replaceable 'Ecoplus' filter
- Oil cooler integral with filter header

#### Cooling system

- Gear-driven circulating pump
- Mounted belt-driven pusher fan
- Radiator incorporating air-to-air charge cooler, (supplied loose)
- System designed for ambients up to 50°C
- Low coolant level switch

#### Electrical equipment

- 24 volt starter motor and 24 volt 70 amp alternator with DC output
- ECM mounted on engine with wiring looms and sensors
- 3 level engine protection system

#### Flywheel and housing

- High inertia flywheel to SAE J620 size 18
- SAE '0' flywheel housing

#### Mountings

- Front engine mounting bracket



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**ALTERNATOR SPECIFICATIONS**

**TAL 047 - 410 to 660 kVA - 50 Hz / 510 to 825 kVA - 60 Hz**

Insulation class	H	Excitation system 6-wire	SHUNT AREP / PMG
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R150 R180
Number of wires	6-wire (12-wire option)	Excitation system 12-wire (option)	SHUNT AREP / PMG
Protection	IP 23	AVR type	R250 R180
Altitude	≤ 1000 m	Voltage regulation (*)	± 1 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (**) in no-load	< 1.5 %
Air flow (m³/s)	0.9	Total Harmonic Distortion THD (**) in linear load	< 5 %
Air flow (m³/s)	1.1	Waveform: NEMA = TIF (**)	< 50
AREP Short-circuit current = 2.7 In : 5 second		Waveform: I.E.C. = THF (**)	< 2%

**Control Panel**

**DSE7320 MKII**

**Auto Mains (Utility) Failure Control Module**

The DSE7320 MKII is a powerful, new generation Auto Mains (Utility) Failure genset control module with a highly sophisticated level of new features and functions, presented in the usual DSE user-friendly format. Suitable for a wide variety of single, diesel or gas Gen-set applications.

**OVERALL SIZE**

245 mm x 184 mm x 51 mm (9.6" x 7.2" x 2.0")

**PANEL CUTOUT SIZE**

220 mm x 160 mm (8.7" x 6.3")

**MAXIMUM PANEL THICKNESS**

8.0 mm (0.3")

**PRODUCT VARIANTS**

7320-03 - 7320 MKII Auto Mains (Utility) Failure Control Module



**Optional configurations:**

**Engine accessories:**

- Heavy-duty air filter
- Coolant heater
- Lubricant oil heater
- Fuel and Water Separator
- Lube oil rotary pump

**Alternator And Accessories:**

- Leroy somer/stamford
- Anti condensation heater
- PMG + AVR ◇ Double bearing
- alternator High voltage,kV
- RTDs for Bearing and winding

**Cooling System:**

- 55 degree Radiator
- Remote Radiator

**Control System:**

- AMF
- Parallel
- Practical type in low temperature environment
- Control Screen Heater
- Remote Annunciators
- Other (ComP, DEIF)

**Circuit Breaker:**

- 3/4 poles
- Fixed/handcart type
- Electric mechanism

**Automatic Transfer Switch (ATS):**

- ATS cabinet
- Contractor type ATS
- Motorized changeover type ATS

**Start Battery:**

- Nickel-cadmium battery
- Maintenance-free battery
- Battery charger and selector switch
- Charging current meter

**External Fuel Tank:**

- Single /double wall fuel tank (500-5000 L)
- Fuel Transfer pump

**Exhaust Muffler:**

- Residential grade
- Critical grade
- Hospital grade

**Available for voltages :**

- 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

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### Prime Rating:

Unlimited hours usage, with an average load factor of 80% over each 24 hours period. 10% overload is available for 1 hour in every 12 hours operation. 0 overload is permitted on standby power.

### Standby Rating:

Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hours period. Up to 300 hours of annual usage may be run continuously. No over-load is permitted on standby power.

### Engine:

Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

### Warranty policy:

ATA products have a warranty for 12 months or 1000 hours whichever occurs first against any manufacturing defects

Wearing parts (filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

### Radiator:

50°C, fan protective shroud

### Fuel Tank:

Capacity of fuel tank is for 8– 10 hours running  
Built in fuel tank up to 800 kVA

### Circuit Breaker:

3 pole LS MCCB

### Alternator Type:

brushless AC alternator

### Control system alarms:

Over and Under Speed  
Low and High Battery Volt. Start and Stop Failure Over Current Under / Over Generator Voltage  
Low Oil Pressure  
Emergency stop High engine temperature



**STAMFORD**  
power generation

**DSE**



**LEROY  
SOMER**

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice. All photos are representative and may not reflect exact mode.

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