



# ATA

Makes Life Brighter

## Generators & Switchgear Solutions

### ATA Perkins, 1103A-33TG2, 60 KVA

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW m	hp	kWm	hp
1500	Primepower	60.0	48.0	55.0	73.8	53.8	72.1
	Standby power	66.0	52.8	60.5	81.1	59.3	79.5

Percent of prime power	Fuel consumption at 1500 rpm	
	UKg/hr	l/hr
Standby power	3.50	15.90
Prime power	3.21	14.60
75%	2.38	10.80
50%	1.66	7.56
25%	0.92	4.20

Engine package weights and dimensions		
Length	1049 mm	41.3 in
Width	634 mm	24.9 in
Height	951 mm	37.4 in
Weight (dry)	420 kg	926 lb

Specification		
Number of cylinders	3 vertical in-line	
Bore and stroke	105 x 127 mm	4.1 x 5 in
Displacement	3.3 litres	201 in <sup>3</sup>
Aspiration	Turbocharged	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	17.25:1	
Rotation	Anti-clockwise, viewed from flywheel	
Total lubricating capacity	8.3 litres	2.2 US gal
Cooling system	Water-cooled	
Total coolant capacity	10.2 litres	2.7 US gal

#### Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank ( L )	Weight (KG)
Open	1950	775	1175	135	900
Closed	2260	1110	1500	135	1450

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### Technical information

#### Air inlet

- Mounted air filter

#### Fuel system

- Rotary type pump
- Next generation fuel filter

#### Lubrication system

- Wet sump with filler and dipstick
- Spin-on oil filter

#### Cooling system

- Thermostatically controlled system with gear-driven circulation pump and belt-driven pusher fan
- Mounted radiator and piping

#### Electrical equipment

- 12 volt starter motor and 12 volt 65 amp alternator with DC output
- 12 volt shutdown solenoid energised to run

#### Flywheel and housing

- High inertia flywheel to SAE J620 Size 10/11½
- SAE 3 flywheel housing

#### Mountings

- Front engine mounting bracket



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**ALTERNATOR SPECIFICATIONS**

**TAL 042 - Three-phase** 25 to 60 kVA - 50 Hz / 31.5 to 75 kVA - 60 Hz

Insulation class	H	Excitation system 6-wire	SHUNT AREP
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R120 R180
Number of wires	6-wire (12-wire option)	Excitation system 12-wire (option)	SHUNT AREP
Protection	IP 23	AVR type	R120 R180
Altitude	≤ 1000 m	Voltage regulation (*)	± 1 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (**) in no-load < 2 %	
Air flow 50 Hz (m³/s)	0.1	Total Harmonic Distortion THD (**) in linear load < 5 %	
Air flow 60 Hz (m³/s)	0.13	Waveform: NEMA = TIF (**)	< 50
AREP Short-circuit current = 2.7 In: 5 second		Waveform: I.E.C. = FHT (**)	< 2%

**Control Panel**

**DSE4510**

**Auto Start Control Module**

The DSE4510 is a compact Auto Start Control Module that has been developed to provide an outstanding range of features within a compact enclosure.

**OVERALL SIZE**

140 mm x 113 mm x 43 mm (5.5" x 4.4" x 1.5")

**PANEL CUTOUT SIZE**

118 mm x 92 mm (4.6" x 3.6")

**MAXIMUM PANEL THICKNESS**

8.0 mm (0.3")

**WEIGHT**

0.26kg

**PRODUCT VARIANTS**

4510-03 - 4510 Auto Start Control Module (Ct, Rtc)

4510-04 - 4510 Auto Start Control Module (Ct, Rtc, Htr)



**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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