



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA Perkins 2806A-E18TAG2, 650 KVA

| Speed rpm | Type of operation | Typical generator output (Net) | | Engine power | | | |
|-----------|-------------------|--------------------------------|-----|--------------|-----|-----|-----|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1500 | Prime power | 650 | 520 | 584 | 783 | 565 | 758 |
| | Standby power | 700 | 560 | 628 | 842 | 609 | 817 |

| Percent of prime power | Fuel consumption at 1500 rpm g/kWh | Fuel consumption at 1500 rpm l/hr |
|------------------------|------------------------------------|-----------------------------------|
| Standby power | 203 | 143 |
| Prime power | 202 | 132 |
| Baseload power | 199 | 99 |
| 75% | 198 | 97 |
| 50% | 201 | 66 |

| 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 ³ |
| 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 |

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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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