



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA Perkins, 1206A-E70TTAG2/1506A-E88TAG2, 225 KVA

| Speed rpm | Type of operation | Generator output | | Engine power | | | |
|-----------|-------------------|------------------|-----|--------------|-------|-------|-------|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1500 | Prime power | 225 | 180 | 204.2 | 273.7 | 195.2 | 261.7 |
| | Standby power | 250 | 200 | 226.1 | 303.1 | 217.1 | 291 |
| 1800 | Prime power | 225 | 180 | 216.6 | 290.5 | 201.6 | 270.4 |
| | Standby power | 250 | 200 | 238.6 | 319.9 | 223.6 | 299.8 |

| Power rating % | 204.2 kW/1500 rpm Prime | | 216.6 kW/1800 rpm Prime | |
|----------------|-------------------------|-----------|-------------------------|-----------|
| | g/kWh | litres/hr | g/kWh | litres/hr |
| 25 | 231.1 | 14.0 | 257 | 16.5 |
| 50 | 209.6 | 25.5 | 216.4 | 27.8 |
| 75 | 208.2 | 38.0 | 209.3 | 40.4 |
| 100 | 209.7 | 51.0 | 211.7 | 54.5 |
| 110 | 211.7 | 56.6 | 215.2 | 61.1 |

| Engine package weights and dimensions | | |
|---------------------------------------|----------|-----------|
| Length (including air filter) | 1895 mm | 74.6 in |
| Width | 995 mm | 39.2 in |
| Height | 1372 mm | 54.0 in |
| Weight (dry) | 807.7 kg | 1780.7 lb |

| Specification | | |
|----------------------------|------------------------------------|-----------------------|
| Number of cylinders | 6 vertical in-line | |
| Bore and stroke | 105 x 135 mm | 4.13 x 5.3 in |
| Displacement | 7.01 litres | 427.7 in ³ |
| Aspiration | Series turbocharged aftercooled | |
| Cycle | 4 stroke DI | |
| Combustion system | Direct injection | |
| Compression ratio | 15.8:1 | |
| Rotation | Anti-clockwise, viewed on flywheel | |
| Total lubricating capacity | 13-16 litres | 3.4-4.2 US gal |
| Cooling system | Liquid | |
| Total coolant capacity | 25 litres | 6.6 US gal |

Dimensions

| Type | Length (mm) | Width (mm) | Height (mm) | Fuel Tank (L) | Weight (KG) |
|--------|-------------|------------|-------------|-----------------|-------------|
| Open | 2850 | 1000 | 1800 | 510 | 2200 |
| Closed | 4100 | 1300 | 1960 | 510 | 3275 |

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Technical information

Air inlet

- Standard air cleaners

Control system

- Full electronic control system
- All connectors and wiring looms waterproof and designed to withstand harsh environments
- Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Cooling system

- Tropical radiator as standard ensures optimal cooling performances all year round in any state
- 50:50 water glycol mix

Flywheels and flywheel housing

- SAE2 flywheel housing

Fuel and fuel system

- Electronic high pressure common rail
- Innovative filter design – ensures maximum protection of the engine
- Flat bottomed, isolated, aluminium sump



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ALTERNATOR SPECIFICATIONS

TAL046 - 230to 365 kVA- 50 Hz/288to 438 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 (12 option) | Excitation system 12-wire (option) | SHUNT AREP+ / PMG |
| Protection | IP 23 | AVR type | R150 R180 |
| Altitude | ≤ 1000 m | Voltage regulation (**) | ± 0.8 % ± 0.5 % |
| Overspeed | 2250 R.P.M. | Total Harmonic Distortion THD (***) in no-load < 2.5 % | |
| Air flow 50 Hz | 0.48 m³/s | Total Harmonic Distortion THD (***) in linear load < 5 % | |
| Air flow 60 Hz | 0.58 m³/s | Waveform: NEMA = TIF (***) | < 50 |
| AREP+/PMG Short-circuit current = 2.7 In: 5 seconds (*) | | Waveform: I.E.C. = THF (***) | < 2% |

Control Panel

| DSE6110 |
|--|
| Auto Start Control Module |
| The DSE6110 MKIII is an Auto Start Control Module suitable for a wide variety of single, diesel or gas, genset applications. |
| OVERALL SIZE |
| 216 mm x 158 mm x 43 mm (8.5" x 6.2" x 1.5") |
| PANEL CUTOUT SIZE |
| 184 mm x 137 mm (7.2" x 5.3") |
| MAXIMUM PANEL THICKNESS |
| 8.0 mm (0.3") |
| WEIGHT |
| 0.5kg |
| PRODUCT VARIANTS |
| 6110-05 - 6110 MKIII Auto Start 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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