



**POWERED by
Perkins Engine
Made in UK**



POWER BRITISH LTD.

YOUR WAY FOR POWER

ATP650 DIESEL GENSET



TECHNICAL DATA SHEET

ATP650

| Prime Power* | Standby Power** | Voltage/Ph | Hz/rpm*** | PF |
|---------------|-----------------|------------|-----------|-----|
| 650kVA/520 kW | 700kVA/560 kW | 400/3Ph | 50/1500 | 0.8 |

Prime power*

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.

The generator is working normally at 55 degrees with derating

Standby power**

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

Available in 60HZ for all voltage ratings.***

Standard Reference Conditions

Note: Standard reference conditions 40°C (104°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

Diesel Generator Set

| | |
|----------------------------------|----------------------------------------|
| Engine Make /Model | PERKINS 2806A-E18TAG2 |
| Alternator Make /Model | Leroy Somer TAL-0473-F |
| Control Panel | DSE 7320 |
| Base Frame / Silent Canopy | Robust Structure/ Corrosion Resistant |
| Circuit Breaker Type | 3 Pole MCCB (4P Available as optional) |
| Built in Base Fuel Tank Capacity | 1200L |
| Battery | Maintenance free Lead Acid |

| Dimensions | Length (cm) | Width (cm) | Height (cm) | Weight (KG) |
|------------|-------------|------------|-------------|-------------|
| Close Type | 550 | 180 | 250 | 4800 |
| Open Type | 490 | 130 | 230 | 4320 |

ENGINE SPECIFICATIONS

| | |
|-----------------------------|-----------------------|
| Engine Make Model | PERKINS 2806A-E18TAG2 |
| No. of Cylinders | 6 vertical in-line |
| Cycle | 4 Stroke |
| Aspiration | Turbocharged |
| Cooling Method | Water cooled |
| Governing Type | Electronic |
| Governing Class | G2 - ISO 8528 Part 1 |
| Compression Ratio | 14.5:1 |
| Displacement | 18.1 L |
| Bore/Stroke | 145 x 183 mm |
| Dynamic Charging Alternator | 70AMP, 24V |

COOLING SYSTEM

| | |
|------------------------------|-------------------------|
| Total Coolant Capacity (L) | 61 L |
| Cooling Fan Air Flow | 852 m ³ /min |
| Radiator Fan Load | 9.0 kW |
| Cooling system design | 50°C |
| Heat Radiation to Room (PRP) | 45 kW |

LUBRICATION SYSTEM

| | |
|--------------------|---------------------|
| Oil Filter Type | Spin-On Full Flow |
| Total Oil Capacity | 62 L |
| Oil Type | API-CH-4 or ACEA E5 |

AIR SYSTEM

| | |
|-----------------------------------|------------------------|
| Air Filter Type | Dry Element |
| Combustion Air Flow (PRP) | 37 m ³ /min |
| Combustion Air Flow (ESP) | 40 m ³ /min |
| Max Air Filter Intake Restriction | 6.4 kPa |

Exhaust System

| | |
|----------------------------|------------------------------|
| Muffler Type | Industrial Grade |
| Max. Back Pressure | 6.9 kPa |
| Exhaust Gas Flow (PRP/ESP) | 106 /114 m ³ /min |
| Exhaust Gas Temperature | ≤ 555 °C |

Comply with Standards

ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

Powered By:



ATP Gen set is reliable and premium power supply .

1. Features & Benefits:

- ATP Gen set is powered by Perkins Engine , the world leader having over 85 years of innovation and excellence, with customers support in 182 countries from 3500 outlets.
- ATP Gen set is powered by Leroy Somer France Alternator, the Global number 1 in Alternators, with over 99 years of Experience, Having 120+ active patents, in over 40 countries and over 80 service centers.
- ATP Gen set is equipped with DSE controller, one of the world's top manufacturers in UK, having over 40 years of excellence, the most advanced and user friendly controller.
- Low fuel consumption, saving on fuel spend
- Compact and rugged design, saving on transport and storage cost
- Designed to occupy less space considering critical applications and cities where space is at a premium.
- Low noise and vibration, considering critical applications where noise level matters
- Easy maintenance and long service intervals , saving on maintenance cost
- Subject to rigorous tests including load acceptance, cooling, vibration and noise level prior shipment to customer.
- Simple to operate and environment friendly in worst ambient conditions
- Equipped with built-in fuel tank sufficient for 8 to 10 hours of operations.
- Fully Engineering wide range of optional accessories available.

(Contd.)



POWERED by
Perkins Engine
Made in UK



POWER BRITISH LTD.

YOUR WAY FOR POWER

ATP650 DIESEL GENSET



TECHNICAL DATA SHEET

ATP650



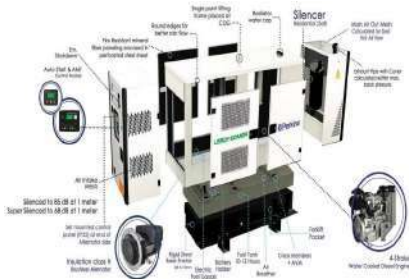
PERKINS Engine
2806A-E18TAG2



Leroy Somer
TAL-0473-F



DSE7320 MKII
AUTO START & AUTO MAINS



ATP ENCLOSURE/ CANOPY

| Engine Fuel System | |
|---------------------------|-----------------|
| Recommended Fuel | Class A2 Diesel |
| Fuel Consumption Standby | 143 L/hr |
| Fuel Consumption 100% PRP | 132 L/hr |
| Fuel Consumption 75% PRP | 97 L/hr |
| Fuel Consumption 50% PRP | 66 L/hr |

| ALTERNATOR SPECIFICATIONS | |
|---------------------------|----------------------------|
| Alternator Make /Model | Leroy Somer TAL-0473-F |
| AVR Model | R150 |
| Number of Poles | 4 |
| Number of Winding Leads | 6 |
| Type of Bearing | Single Bearing Insulation |
| Class - Temp Rise | Cont. H - 125/40°C Ingress |
| Protection Rating | IP 23 |
| Excitation System | Self Excited |
| Voltage Regulation | + 1% |
| Harmonic Coefficient THF | < 2% |
| Tel. influence TIF | < 50 |
| Cooling air flow | 0.9 m ³ / Sec |

| Controller Make & Model | DeepSea 7320 |
|---------------------------|--------------------------------------|
| Operation Mode | AMF |
| Display | Graphic Back-lit LCD (132x64) pixels |
| Ingress Protection Rating | IP65 |
| Binary Inputs/Outputs | 9/8 |
| Analog Inputs | 4 |
| Measurement | Vac, A, Hz, kVA, kW, Vdc |
| Event Log | Alarms log, Hrs log |
| Communication | USB |

Please refer to Controller Data Sheet for more details.

| Enclosure Type | Acoustic & Weather Proof |
|------------------------|---------------------------------------------------------|
| Drainage | Fuel and Water Drainage Provision |
| Transportation | Tested Single Point Lifting Facility & Forklift Pockets |
| Ingress Protection | IP 23 |
| Lifting | ISO Standard Lifting |
| Canopy RAL Color | RAL 9010 - Powder coated |
| Base frame RAL Color | RAL 9005 - Powder coated |
| Noise Pressure level @ | 85 @ 1 to 3 m |

2. WARRANTY POLICY:

- Power British Generator technology has a warranty 1000 hours or one year whichever occurs first, from any manufacturing defect (except for bad fuel usage or misuse). Regarding that the generator must not be working less than 60 % of the load.
- Wearing parts (filters), incorrect man-made operation, Back up Genset maintenance failures are excluded from the warranty policy
- For more details please refer to www.powerbritish.co.uk

3. DOCUMENTAION

Operation and Maintenance Manual, GAD, Wiring Diagram & FAT Report are Accompanied with Genset.

4. OPTIONAL FEATURES

A. Engine

- Heavy-Duty Air Filter
- Coolant Heater
- Lubricant Oil Heater
- Fuel and Water Separator
- Lube Oil Rotary Pump

B. Alternator

- Anti Condensation Heater
- PMG + AVR
- Double Bearing Alternator
- RTDs For Bearing and Winding

C. Cooling System:

- 55 degree Radiator
- Remote Radiator

D. Control System:

- AMF / Parallel
- Remote Annunciators
- 4 p manual/Motorized Circuit breaker

E. Automatic Transfer Switch (ATS):

- Contractor or Breaker type ATS
- Motorized changeover type ATS

F. Start Battery:

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

G. Exhaust Muffler:

- Residential grade
- Critical grade
- Hospital grade

H. Available for voltages :

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

Power British LTD.

6-9 TheSquare, Stockley Park , Uxbridge UB11 1FW ,United Kingdom

Tel : +44 2089 29985

E-mail: info@powerbritish.co.uk

