



**LBE POWERING YOUR WORLD**  
anytime. anywhere

**P-625**

**Powered By Perkins**

**Perkins®**

**Diesel Power**



| MODEL           |             |     | P-625   |
|-----------------|-------------|-----|---------|
| Power<br>Pf.0.8 | Standby     | kVA | 687     |
|                 |             | kW  | 550     |
|                 | Prime       | kVA | 625     |
|                 |             | kW  | 500     |
|                 | Frequency   | Hz  | 60      |
|                 | Voltage     | V   | 220/380 |
|                 | Rated speed | rpm | 1800    |

#### Standard Features

- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60Hz generator set offers a AUS 2012 listing and CE 2015 listing.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 60Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2, EU3 nonroad emissions regulations.(≤560KW)

#### Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only)
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.

**RATINGS:** All three-phase units are rated at 0.8 power factor. **Standby ratings:** Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. **Prime power ratings:** Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings



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### Perkins engine Model: 2806C-E18TAG1A

#### Main features:

- Economic power
  - Mechanically operated unit fuel injectors with advanced electronic control, combined with carefully matched turbocharging, give excellent fuel atomization which leads to exceptional low fuel consumption
- Reliable power
  - Developed and tested using the latest engineering techniques and finite element analysis for high reliability
  - Low oil usage and low wear rates
  - High compression ratio ensures clean rapid starting in all conditions
  - Support comes from a worldwide network of 4,000 distributors and dealers
- Compact, clean and efficient power
  - Exceptional power to weight ratio and compact size gives optimum power density for ease of installation and more cost effective transportation
  - Designed to provide excellent service access for ease of maintenance
- Cost effective power
  - Compact size and low noise
  - Lower fuel consumption and oil use
  - 500 hours service intervals
  - 2 year warranty



### Engine Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Engine Brand                | PERKINS                                     |
| Engine Model                | 2806C-E18TAG1A                              |
| Cylinder No.& Configuration | 6 cylinder Diesel L type                    |
| Working Mode                | Turbocharged and air-cooled charge air      |
| Bore x Stroke               | mm 145*183                                  |
| Displacement                | L 18.13                                     |
| Compression Ratio           | 14.5:1                                      |
| Rated Power                 | kW 567.7                                    |
| Rated Speed                 | 1800                                        |
| Lubrication System          | Splash Lubrication                          |
| Lube Oil                    | Conforms above CF class or SAE10W-30,15w-40 |
| Lube Oil Capacity           | L 62                                        |
| Battery Capacity            | 6-QW-120(850)*2                             |
| Fuel Type                   | Diesel:0#(Summer),-10#(Winter),-35#(Cold)   |
| Fuel Consumption 25% load   | L/H 43                                      |
| Fuel Consumption 50% load   | L/H 71                                      |
| Fuel Consumption 75% load   | L/H 100                                     |
| Fuel Consumption 100% load  | L/H 130                                     |



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### Alternator

|                                                                                    |                                            |
|------------------------------------------------------------------------------------|--------------------------------------------|
| Type                                                                               | 4-Pole, Rotating-Field                     |
| Exciter type                                                                       | Brushless, Permanent-Magnet, Pilot Exciter |
| Voltage regulator                                                                  | Solid-State, Volts/Hz                      |
| Insulation                                                                         | NEMA MG1, Class H                          |
| Material                                                                           | Synthetic, Nonhygroscopic                  |
| Temperature rise                                                                   | 130°C, 150°C Standby                       |
| Bearing: quantity, type                                                            | 1, Sealed                                  |
| Coupling                                                                           | Flexible Disc                              |
| Amortisseur windings                                                               | Full                                       |
| Rotor balancing                                                                    | 125% 60 Hz, 150% 50 Hz                     |
| Voltage regulation, no-load to full-load(with < 0.5% drift due to temp. variation) | 3-Phase Sensing, $\pm 0.25\%$              |
| One-step load acceptance                                                           | 100% of Rating                             |
| Unbalanced load capability                                                         | 100% of Rated Standby                      |

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and drip-proof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state volts-per-hertz voltage regulator with  $\pm 0.25\%$  no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

### Controller



#### Key Features

- 4-line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- Easy access diagnostic page
- CAN and Magnetic Pick-up / Alt. Sensing
- Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm
- Manual speed control
- Manual fuel pump control
- Engine exerciser
- "protections disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Configurable display languages
- User selectable RS232 and RS485 communications
- SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Integral PLC editor



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## Generating Sets Standard and Optional Features

### Engine

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- Radiator with blowing fan
- Industrial silence
- Fuel water separator (optional)
- Water jacket heater (optional)

### Alternator

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation(optional)
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Condensed heater (optional)
- IP41 Protection (optional)

### Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

### Packing

- Engine manual

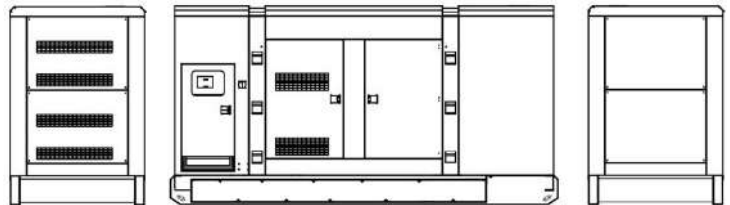
### Baseframe

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet valve
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

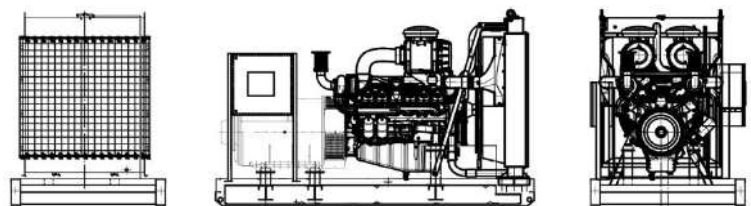
### Canopy

- Weatherproof & sound-attenuated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer

### Overview Dimension & Weight



| (Silent type) |                |               |                |             |                        |
|---------------|----------------|---------------|----------------|-------------|------------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) |
| Silent Type   | 5060           | 1912          | 2500           | 5895        | 1000                   |



| (Open type)   |                |               |                |             |                        |
|---------------|----------------|---------------|----------------|-------------|------------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) |
| Open Type     | 3600           | 1750          | 2200           | 4245        | 760                    |



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