



## **POWERZONE TECHNOLOGIES PTE LTD**

Blk 9, Kallang Place, #06-09

Kallang Basin Industrial Estate Singapore 339154

Tel : +65-6299 3711 Fax: +65-6299 4911

(Reg No. 201005325H)

### **Catalogue PL650P OPEN TYPE Perkins Engine 2806A-E18TAG2**

## **1. PERKINS -STAMFORD GENERATING SET**

### **ENGINE**

Although the Perkins 2800 range of diesel engines caters for both prime and standby generation, the engines are proving particularly popular for the standby market sector. They can deliver 514-652 kWm engine power and 591-750 kVA generator output, along with mechanically operated unit fuel injectors, electronic control and carefully matched turbocharging. And, with flexible packaging, the Perkins 2800 range will fit into whatever space you have available within your equipment.

### **ALTERNATOR**

Single bearing alternators, brushless, self-exciting, self-regulating with class H insulation, permanent magnet generator system, screen protected and constructed to meet BS 5000. Voltage regulation is within +/- 1.5% from no load to full load. Alternators are tropicalized and drip proof to Ip23.

### **GENSET CONSTRUCTION**

The diesel engine and alternator are mounted on anti-vibration mounting on a fabricated steel skid base. Alternator is coupled to the engine flywheel by means of a flexible disc. The genset is load tested to ensure correct operation and finished with 2 coats of industrial high gloss paint.

### **GENSET CONTROL PANEL**

The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem). The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet ® terminals for system expansion.

Both modules are compatible with electronic (CAN) and non-electronic (magnetic pickup/alternator sensing) engine and offer an extensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements. The modules can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.



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### **Economic Power**

- Mechanically operated unit fuel injectors with electronic control combined with carefully matched turbocharging, give excellent fuel atomisation and combustion with optimum economy, emissions and advanced overall performance and reliability.
- Low emission result from electronic control of fuel injected.

### **Reliable Power**

- Developed and tested using the latest engineering techniques and finite element analysis.
- High compression ratios ensure clean rapid starting in all conditions.
- Perkins global product support is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM partnership options. So whether you are an end-user or an equipment manufacturer our engine expertise is essential to your success.

### **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.



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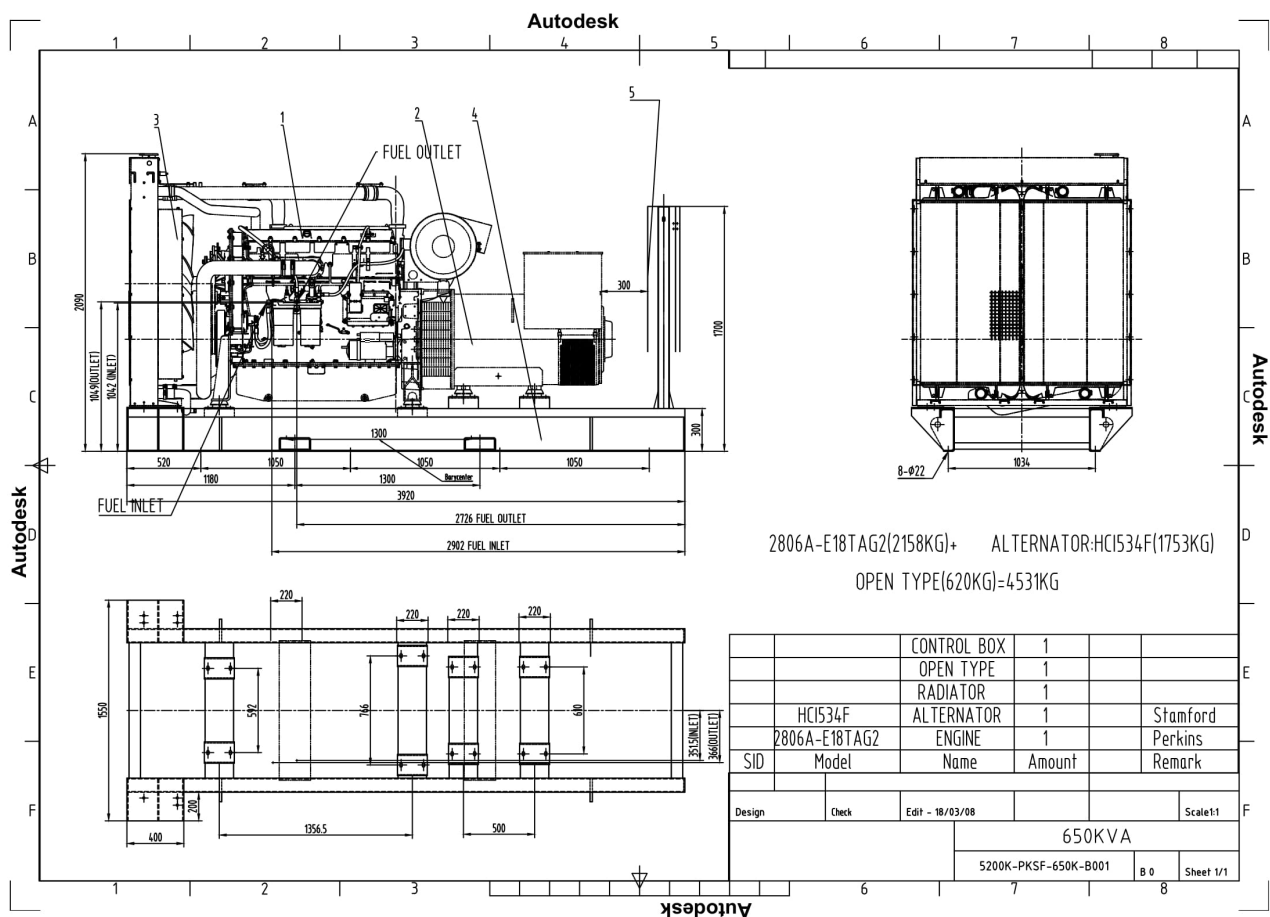
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### PL650P OPEN TYPE Perkins Engine 2806A-E18TAG2

#### Genset Drawing





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<b>TECHNICAL SPECIFICATION</b>	
<b>GENERATING SET PL650P</b>	<b>TRAKNUS SPEC</b>
<b>ENGINE/MODEL</b>	<b>PERKINS/2806A-E18TAG2</b>
<b>Type of Operation</b>	<b>Prime Power</b>
<b>Capacity</b>	<b>650 kVA / 520 kW(Net)</b>
<b>Number of Cylinders</b>	<b>6</b>
<b>Set Outputs</b>	<b>380-220V, 50Hz</b>
<b>Engine Speed rev/min</b>	<b>1500rpm</b>
<b>Overload Capacity</b>	<b>10% overload is available for 1 hour in every 12 hour operation</b>
<b>Cylinder Arrangement</b>	<b>Vertical in-Line</b>
<b>Cycle</b>	<b>4 Stroke</b>
<b>Induction System</b>	<b>Turbocharged, air-to-air chargecooled</b>
<b>Governor Type</b>	<b>Electronic</b>
<b>Combustion System</b>	<b>Direct Injection</b>
<b>Cooling System</b>	<b>Water-Cooled</b>
<b>Direction of Rotation</b>	<b>Anti-clockwise, viewed on flywheel</b>
<b>Bore and Stroke</b>	<b>145 x 183 mm</b>
<b>Displacement</b>	<b>18.1 litres</b>
<b>Compression Ration</b>	<b>14.5:1</b>
<b>Tatal Lubricant System Capacity</b>	<b>62 litres</b>
<b>Total Coolant Capacity</b>	<b>61 litres</b>
<b>Fuel Consumption, Prime</b>	<b>132 litres/hour</b>
<b>ALTERNATOR / MODEL</b>	<b>STAMFORD / HCI534F</b>
<b>Protection</b>	<b>IP23</b>
<b>Ampere</b>	<b>988</b>
<b>Cable / Phase (mm<sup>2</sup>)</b>	<b>300*2</b>
<b>kVA</b>	<b>670</b>
<b>kW</b>	<b>536</b>
<b>Characteristic</b>	<b>Brushless, Self Excited with AVR</b>
<b>Phase</b>	<b>3</b>
<b>Pole</b>	<b>4</b>
<b>Frequency</b>	<b>50 Hz</b>
<b>Capacity(Base-380V)</b>	<b>380 kVA</b>
<b>Power Factor (PF)</b>	<b>0.8</b>
<b>Insulation Syastem</b>	<b>Class "H"</b>
<b>Overspeed Maximum</b>	<b>2250 rpm</b>
<b>DAILY TANK</b>	<b>1000 litres</b>
<b>GENSET OPEN TYPE</b>	<b>PL650P</b>
<b>DIMENSION OPEN(Approx) LxWxH</b>	<b>3920 x 1536 x2015 mm</b>
<b>WEIGHT (Approx)</b>	<b>4531 kg</b>
<b>GENSET SILENT TYPE</b>	<b>PL650S/B</b>
<b>DIMENSION SILENT (Approx) LxWxH</b>	<b>5500 x 1900 x 2550 mm</b>
<b>WEIGHT (Approx)</b>	<b>6400 kg</b>
<b>PANEL GENSET</b>	<b>DEEP SEA 7320</b>



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### Genset Pictures

