



## **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 PL1700P OPEN TYPE Perkins Engine 4012-TAG3A**

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

### **ENGINE**

The Perkins 4012 range packs a real performance punch, with 12 cylinders and 46 litre displacement providing all the power you need. The range's diesel ElectropaK engines are supplied complete with radiator and air cleaner, or as engine only. They provide 989-1600 kVA generator output, with exceptional power-to-weight ratios. The compact design of the engines makes them easy to transport and install.

### **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**

- Individual four valves per cylinder heads give optimised gas flows, whilst digitally governed unit fuel injectors ensure ultra-fine fuel atomisation and hence controlled rapid combustion, for efficiency and economy.
- Commonality of components with other engines in the 4000 Series family allows reduced parts stocking levels for the end users.

### **Reliable Power**

- Developed and tested using the latest engineering techniques.
- Piston temperatures are controlled by an advanced gallery jet cooling system.
- All engines are tolerant of a wide range of temperatures without derate.
- Service is provided through the extensive Perkins network of distributors and dealers worldwide.

### **Clean and Efficient Power**

- Exceptional power to weight ratio and compact size for easier transportation and installation.
- New designed radiator assemblies with corrosion inhibiting powder coated surfaces; fewer pipe joints and easier access to reduce maintenance times.
- Designed to provide excellent service access for ease of maintenance.
- Engines designed to comply with major international standards.
- Low gaseous emissions that will satisfy the requirements of ½ TALuft (1986)



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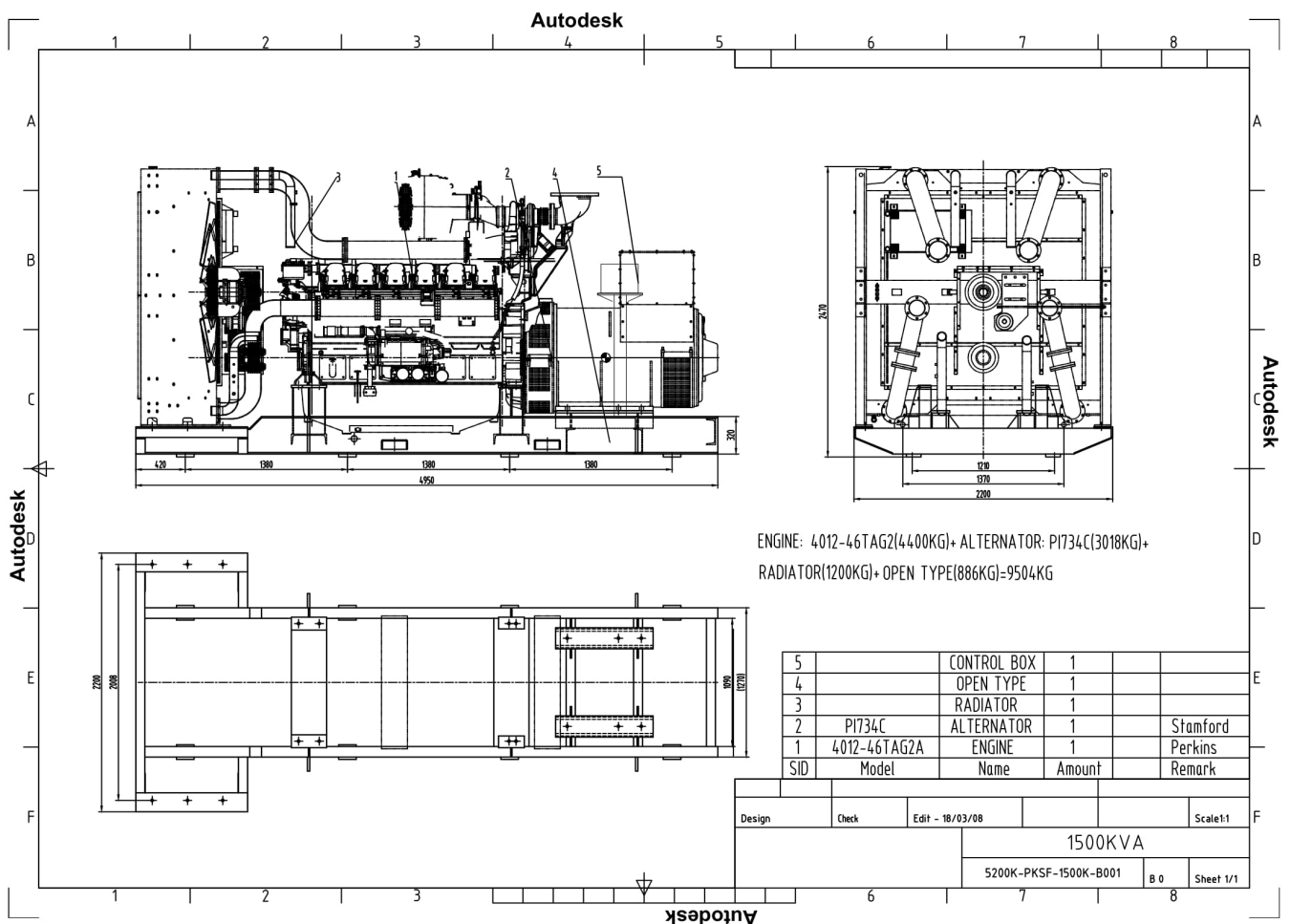
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### PL1700P OPEN TYPE Perkins Engine 4012-46TAG3A

#### Genset Drawing





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TECHNICAL SPECIFICATION	
GENERATING SET PL1700P	TRAKNUS SPEC
ENGINE/MODEL	PERKINS/4012-46TAG3A
Type of Operation	Prime Power
Capacity	1710 kVA / 1368 kW(Net)
Number of Cylinders	12
Set Outputs	380-220V, 50Hz
Engine Speed rev/min	1500rpm
Overload Capacity	10% overload is available for 1 hour in every 12 hour operation
Cylinder Arrangement	60° Vee
Cycle	4 Stroke
Induction System	Turbocharged, air-to-air chargecooled
Combustion System	Direct Injection
Cooling System	Water-Cooled
Direction of Rotation	Anti-clockwise, viewed from flywheel
Bore and Stroke	160 x 190 mm
Displacement	45.842 litres
Compression Ration	16.3:1
Total Lubricant System Capacity	177 litres
Total Coolant Capacity	207 litres
Fuel Consumption	361 l/hr
ALTERNATOR / MODEL	STAMFORD / HCI734E
Protection	IP23
kVA	1710
kW	1368
Characteristic	Brushless, Self Excited with AVR
Phase	3
Pole	4
Frequency	50 Hz
Capacity(Base-380V)	380 kVA
Power Factor (PF)	0.8
Insulation System	Class "H"
Overspeed Maximum	2250 rpm
GENSET OPEN TYPE	PL1700P
DIMENSION OPEN(Approx) LxWxH	5070x2162.9x2868.4 mm
WEIGHT (Approx)	10656 kg
DIMENSION SILENT (Approx) LxWxH	
WEIGHT (Approx)	
PANEL GENSET	DEEP SEA 7320





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### Genset Pictures

