

# M650PSOA

50Hz@1500RPM 400/230V 3PH



Perkins STAMFORD



Picture for illustration purposes only

## General features

Silent generator with following specifications:

### Frame:

- Heavy duty fabricated welded base plate with high quality steel UNI S235 JR
- Heavy duty, bell type, rubber anti-vibration mountings
- Fuel tank with drain plug and retention basin
- Feet and lifting hook
- Oil draining mechanical pump

### Canopy:

- Large doors for easy access for service and monitoring (maintenance)
- Metalsheet Cut using high precision laser technology
- Weatherproof sealed joints
- Lockable handles in each door
- "Orange peel" specific powder coat paint for outdoor usage
- Rain cap on exhaust outlet
- Coolant refilling specific hatch
- Easy access to fuel refilling
- Ecological Sound foam: 100% Recyclable, 40mm thickness, fire-proof self-extinguishing class1 fire-reaction compliant washable, mechanically fixed to the roof with zinc plated metal supports and to the doors with metal grid

### Control Panel:

- Self-standing control panel tower made with metal structure easily removable for maintenance
- Easy access to control panel through a canopy's door, equipped with lexan window
- Control panel is divided in two independent and insulated boxes separating Controls (Controller and numbered terminal board) from Power connection (circuit breaker and cable inlet)
- External dedicated area to make easier the electrical connection to the load
- Power connection between circuit breaker and alternator made with high resistance cables and using cable glands for waterproof connections

All units and components are prototype tested, factory build and production tested. A specific control procedure during the several stages of production ensures long life and reliability.

## Overall performance

### M650PS

PRP Continuous power kVA	650
PRP Continuous power kW	520
LTP Stand-by power kVA	700
LTP stand-by power kW	560
Power factor cos $\phi$ ip	0.8
Voltage VAC	400/230
Frecuency Hz	50
Ampere PRP/LTP	939 / 1012
Speed RPM	1500

## Dimensions and noise level

Length mm	4500
Width mm	1840
Height mm	2540
Net Weight kg	5970
Gross Weight kg	-
Sound pressure at 7 mt dBA	-

## Data reference

Standard reference conditions temperature 25°C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortional. Fuel consumption is nominal and refers to specific weight 0.850 gr/lit. Power performance data as quoted can be obtained after the initial running-in period of the engine, during which one has to follow the instructions of the engine manufacturer as stated in the use and maintenance manual of the specific engine. The tolerance shown by the engine manufacturer is +/- 5%. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance.P.R.P. Prime Power-Continuous power at variable load: The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer. according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer.L.T.P. Limited-time running power-Limited power: The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1.The number of hours per year is stated by the Manufacturer. Overload is not permitted.\*For reasons of transport and/or storage, liquids (oil and antifreeze) and batteries might not be included in the delivery.

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## Engine general data

Engine brand	<b>Perkins</b>
Model	<b>2806A-E18TAG2</b>
PRP Power at the flywheel kW	<b>565.00</b>
LTP Power at the flywheel kW	<b>609.00</b>
Fuel	<b>Diesel</b>
Nr. cylinders	<b>6</b>
Air intake	<b>Turbocharged</b>
Cooling	<b>Water</b>
Cubic capacity l.	<b>18.13</b>
Speed regulation	<b>Electronic</b>
Regulator precision +/-%	<b>G3 - 0.25</b>
Voltage VDC	<b>24</b>
Emissions	<b>-</b>

## Fuel consumption

Consumption 25% l./h	<b>-</b>
Consumption 50% l./h	<b>66.00</b>
Consumption 75% l./h	<b>97.00</b>
Consumption 100% l./h	<b>132.00</b>
Autonomy at 75% of load h.	<b>~ 10 h</b>

## Engine liquids and equipment

Type of lubricant	<b>Oil SAE 15W40</b>
Lubrication capacity l.*	<b>62.00</b>
Type of coolant	<b>Antifreeze liquid</b>
Coolant capacity l.*	<b>61.00</b>
Air intake filter	<b>Paper cartridge</b>
Battery capacity Ah	<b>120</b>
Number of batteries*	<b>2</b>

## Alternator general data

Alternator brand	<b>Stamford</b>
Model	<b>HCI544F</b>
Type of excitation	<b>Self-excited</b>
Type of regulation	<b>AVR</b>
Regulator precision +/-%	<b>1.00</b>

## Fuel system and energy balance

AC pump suction head kPa	<b>3</b>
Combustion air flow volume LTP m3/min	<b>40.00</b>
Cooling air capacity LTP m3/min	<b>702.00</b>
Exhaust gas flow-density LTP m3/min	<b>114.00</b>
Exhaust gas temperature LTP °C	<b>553.00</b>
Brake mean effective pressure kPa	<b>6.90</b>
Energy to exhaust LTP kWt	<b>484.00</b>
Energy to coolant LTP kWt	<b>329.00</b>
Energy to radiation LTP kWt	<b>45.00</b>

## Structure data

Type of structure	<b>OA</b>
Tank capacity l.	<b>950</b>
Retention basin	<b>yes</b>
Exhaust diameter mm	<b>-</b>

## Control panel features

- Self-standing tower with metal box
- Circuit breaker
- AMF controller DSE7320
  - Voltmeter, Frequency meter, Ammeter
  - Generator power (kW, kV Ar, kV A & pf) monitoring
  - Hour meter
  - Fuel level meter
  - Overload (kW & kV Ar) protection
  - Low oil pressure protection
  - High coolant temperature protection
  - Low fuel level protection
  - Battery charger alternator fault
  - Rpm protection
- Emergency stop button
- Audible alarm
- Terminal board for ATS connection
- RS232 & RS485 Port
- Can Bus reading Port (if standard on the engine)
- Battery charger
- On/off switch



Dealer