

# P500E6

Industrial Range Powered By PERKINS

**AGG** Power Solutions



Standards : 2006/42/EC Machinery safety, 2006/95/EC Low voltage, EN 60204-1 : 2006+A1 : 2009, EN ISO 12100 : 2010, EN ISO 8528-13:2016, EN ISO 13849-1: 2015, EN 60204-1: 2018

PRP: Prime power is available for an unlimited number of annual operating hours in variable load applications , in accordance with ISO 8528-1.

ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. overload is not allowed.

Conditions : According to the standard, the nominal power assigned by the genset is given for 25° C air inlet temperature, of a barometric pressure of 100 kPa (100 m A.S.L), and 30 % relative humidity.

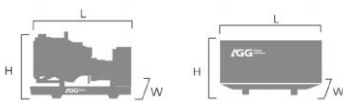
## GENERATOR SPECIFICATION

| ITEMS                            | PRP               | EPS    |
|----------------------------------|-------------------|--------|
| Power                            | 450kVA            | 500kVA |
| Power                            | 360kW             | 400kW  |
| Frequency / Phase / Power factor | 60Hz / 3P / PF0.8 |        |
| Standard voltage                 | 220/127V          |        |
| Available voltage                | 220/127V          |        |



## GENERAL INSTALLATION

| ITEMS                | OPEN           | SILENT         |
|----------------------|----------------|----------------|
| Dimension(L*W*H)(mm) | 3200*1200*2100 | 4500*1455*2540 |
| Weight(kg)           | 3350           | 4100           |
| Fuel tank(L)         | 600            | 1000           |
| Sound pressure level |                |                |
| @75% load&1m dB(A)   |                | TBA            |
| @75% load&7m dB(A)   |                | TBA            |



NOTE: Weights and dimensions based on standard products. According to 2000/14/CE , sound data is provided at 7m for 75% prime power. For actual installation, please contact the manufacturer.

| PERFORMANCE DATA |   |     |
|------------------|---|-----|
| Engine brand     | PERKINS                                 |     |
| Engine model     | 2206A-E13TAG6                           |     |
| Fuel             | Diesel                                  |     |
| Aspiration       | Turbocharged, air to air Charge cooling |     |
| Cooling          | Water-cooled                            |     |
| Governor         | ECM                                     |     |
| Cyl arrangement  | 6L                                      |     |
| Application      | Prime & Standby                         |     |
| Fuel consumption | 100% ESP(L/H)                           | 100 |
|                  | 100% PRP(L/H)                           | 91  |
|                  | 75% PRP(L/H)                            | 69  |
|                  | 50% PRP(L/H)                            | 48  |

## ENGINE SPECIFICATION

### BASIC DATA

|                          |                 |
|--------------------------|-----------------|
| Engine brand             | PERKINS         |
| Engine model             | 2206A-E13TAG6   |
| Displacement             | 12.5 L          |
| No. of cyl / arrangement | 6L              |
| Bore x stroke            | 130x157mm       |
| Compression ratio        | 16.3 : 1        |
| Engine speed             | 1800rpm         |
| Engine type              | 4-stroke diesel |

### EXHAUST SYSTEM

|   |                          |
|---|--------------------------|
| Exhaust stack gas temperature (max. )           | 680 °C                   |
| Exhaust gas flow rate (max. )                   | 84.3 m <sup>3</sup> /min |
| Exhaust system backpressure (maximum allowable) | 10 kPa                   |

### FUEL SYSTEM

|                                  |         |
|----------------------------------|---------|
| Maximum restriction at lift pump | 6.2 Bar |
| Max. fuel flow                   | 480 L/H |

### COOLING SYSTEM

|                        |                         |
|------------------------|-------------------------|
| Radiator air flow      | 716 m <sup>3</sup> /min |
| Total oil capacity     | 40 L                    |
| Total coolant capacity | 51.4 L                  |

### ELECTRICAL SYSTEM

|                             |                 |
|-----------------------------|-----------------|
| Starter motor rated voltage | DC24V           |
| Start battery               | 2x120Ah(850CCA) |
| Battery charging alternator | DC24V/70A       |

### INLET AIR

|  |                        |
|--|------------------------|
| Air filter                               | Dry type               |
| Max. combustion air Intake restriction   | 6.4 kPa                |
| Combustion air inlet flow rate           | 29 m <sup>3</sup> /min |
| Max. allowable combustion air inlet temp | 50°C                   |

## ALTERNATOR SPECIFICATION

### BASIC DATA

|                                |              |
|--------------------------------|--------------|
| Insulation & temperature rise  | Class H/H    |
| Excitation type                | Self-excited |
| Winding leads                  | 12           |
| Winding connections (standard) | Star         |
| Winding pitch                  | Two thirds   |
| Number of phase                | Three phase  |

### BASIC DATA

|                    |                     |
|--------------------|---------------------|
| Type               | Brushless           |
| No. of bearings    | Single bearing      |
| Coupling system    | Flexible disc       |
| Maximum over speed | 2250 RPM            |
| Coating type       | Vacuum impregnation |
| IP rating          | IP23                |

# CONTROL SYSTEM

Key features

|  |   |   |
|--|---|---|
| <p>Single generator set control- can be used in prime or standby scenarios</p>  | <p>Manual and remote start, MRS application</p>                      | <p>Auto mains failure, AMF application</p>                                   |
| <p>Genset power/frequency/factor /voltage/current detection</p>                | <p>Engine / alternator / generator protections, emergency stop</p>  | <p>Event log / running hours history / maintenance warning, LCD screen</p>  |
| <p>User access management, software and tools are easy to use</p>             | <p>Input or output configuration, USB communication port</p>       |   |



## GENSET VERSION

### STANDARD FEATURES

- ◆ Diesel engine, 50 degrees radiator, brushless alternator
- ◆ Intelligent controller
- ◆ Output circuit breaker (up to 1250A)
- ◆ Maintenance-free start battery, battery charge, battery switch
- ◆ Steel industrial silencer, exhaust bellows and elbows
- ◆ Steel chasis and anti-vibration shock absorbers
- ◆ Lifting and moving structure, expansion of oil and coolant discharge
- ◆ Moving parts protection, hot parts protection
- ◆ Special toolbox, delivery attached documentation



### OPTIONAL FEATURES

#### ENGINE

- ◆ Water jacket preheater
- ◆ Oil Preheater, oil level maintainer, oil manual pump
- ◆ Heavy air filtration
- ◆ Residential silencer
- ◆ Remote radiator, heat exchanger

#### ALTERNATOR

- ◆ PMG/AREP excitation system
- ◆ Anti-condensation heater
- ◆ Winding/bearing RTD
- ◆ Double bearing structure
- ◆ IP44 protection class

#### CONTROL SYSTEM

- ◆ Synchronizing panel, remote control panel
- ◆ RS232/485, 4G & GPS wireless, ethernet communication card
- ◆ Additional digital/analog input/output
- ◆ Monitoring software, mobile APP
- ◆ Ni-Cad batteries

#### GENERATING SET

- ◆ External fuel tank, automatic fuel feeding
- ◆ ATS/output /combining/distribution cabinet
- ◆ Load test cabinet
- ◆ Mobile trailer
- ◆ Customized design

Tel: +86 591 8639 6829 Fax: +86 591 8639 6929  
Email: [info@aggpowersolutions.com](mailto:info@aggpowersolutions.com) Web: [www.aggpower.co.uk](http://www.aggpower.co.uk)

-  Follow us @AGGPOWER
-  Follow us @AGG Power Group
-  Follow us @AGG Power Group

