



**IDJ1400P**

**IDEA DIESEL GENERATING SET  
TECHNICAL SPECIFICATIONS**



| <b>ELECTRICAL</b> |                |                    |                    |
|-------------------|----------------|--------------------|--------------------|
| <b>FREQUENCY</b>  | <b>VOLTAGE</b> | <b>PRIME</b>       | <b>STAND-BY</b>    |
| 50 Hz             | 400/230 V      | 1250 kVA / 1000 kW | 1375 kVA / 1100 kW |
| Rated Speed       | 1500 RPM       |                    |                    |
| Phase             | 3              |                    |                    |
| Power Factor      | 0,8            |                    |                    |

**Prime** : This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

**Stand-by** : This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure.No overload is permitted.

| <b>WEIGHT AND DIMENSIONS</b> |    |             |               |
|------------------------------|----|-------------|---------------|
|                              |    | <b>OPEN</b> | <b>CANOPY</b> |
| Length                       | mm | 4700        | 6080          |
| Width                        | mm | 2050        | 2470          |
| Height                       | mm | 2350        | 2900          |
| Weight                       | kg | 9630        | 12320         |

## IDJ1400P

| ENGINE                   |      |                      |
|--------------------------|------|----------------------|
| Output Rating            | kWm  | 1224                 |
| Manufacturer and Model   |      | Perkins 4012 46TWG2A |
| Fuel                     |      | Diesel               |
| Injection                |      | Direct               |
| Cylinders                |      | 12                   |
| Bore and Stroke          | mm   | 160 x 190            |
| Displacement             | lt   | 45,84                |
| Cooling                  |      | Water                |
| Engine Oil Specification |      | SAE 15W40            |
| Fuel Consumption         |      | 50 Hz                |
| 75 % Load                | lt/h | 196,0                |

| ALTERNATOR                      |  |                                     |
|---------------------------------|--|-------------------------------------|
| Poles                           |  | 4 pole                              |
| Winding Connections             |  | Star                                |
| Insulation                      |  | Class H                             |
| Enclosure                       |  | IP23                                |
| Exciter System                  |  | Self regulating Brushless           |
| Voltage Regulator               |  | AVR                                 |
| Steady State Voltage Regulation |  | $\pm 1 \%$                          |
| Bearing                         |  | Single bearing sealed               |
| Coupling                        |  | Flexible disc                       |
| Cooling                         |  | Direct drive centrifugal blower fan |

## CONTROL PANEL - IDP300

The IDP300 is a comprehensive AMF unit for single genset standby or dual genset mutual standby operations. The unit provides a comprehensive set of digitally adjustable timers, threshold levels, input and output configurations, operating sequences and engine types. All programs may be modified via front panel pushbuttons, and do not require an external unit. Last 100 faults are stored in the event log file. The event log includes not only the date-time information, but also a comprehensive list of measured genset parameters at the time that the fault has occurred.



| <b>CONTROL PANEL FEATURES</b>                           |  |
|---|--|
| <b>Alarm and Shutdown functions</b>                     |  |
| High Coolant Temperature                                | Alarm & Shutdown                               |
| Low Oil Pressure  | Alarm & Shutdown                               |
| Battery High / Low Voltage                              | Alarm  |
| Battery Charger Alternator Failure                      | Alarm  |
| Overspeed / Underspeed                                  | Alarm & Shutdown                               |
| Failure to Start  | Alarm & Shutdown                               |
| Low Coolant Level                                       | Alarm & Shutdown                               |
| Stop Fault  | Alarm & Shutdown                               |
| Low Fuel Level  | Alarm  |
| Service Required  | Alarm  |
| Generator High / Low Voltage                            | Alarm & Shutdown                               |
| Generator High / Low Frequency                          | Alarm & Shutdown                               |
| Symmetry between Phases                                 | Alarm & Shutdown                               |
| Over Current  | Alarm & Shutdown                               |
| Rectifier Fail  | Alarm  |
| ECU failure   | Alarm  |
| <b>Measure and Monitor functions</b>                    |  |
| Total Run Hour  | Coolant Temperature                            |
| kW meter - Generator                                    | Oil Pressure                                   |
| Service Indicator                                       | Fuel Level                                     |
| Phase to Phase Voltage - Mains                          | Battery Voltage                                |
| Phase to Neutral Voltage - Mains                        | Engine RPM                                     |
| Phase to Phase Voltage - Generator                      | Battery Charge Alternator Voltage              |
| Phase to Neutral Voltage - Gen.                         | Frequency - Generator & Mains                  |
| Phase current - Generator                               | Power Factor - Generator                       |
| <b>Other functions</b>                                  |  |
| Events History  | Programmable Timer                             |
| External Start Capability                               | Multi Lingual                                  |
| Start Restriction Program                               | Lamp test                                      |
| Mains Failure Start                                     | Remote Monitoring                              |
| Test Run Start (On load & off Load)                     | Manual Override                                |
| Allows SMS controls                                     | Remote Programming                             |
| Fuel consumption counter                                | Magnetic Pick Up Input                         |
| Waveform display of voltage & current                   | Total Harmonic Distortion view                 |
| Programmable as an ATS controller                       | Manual "speed fine adjust" on selected ECUs    |
| Standardized USB port for programming and communication | J1939-CANBUS for electrocally governed engines |

| GENERATOR FEATURES               | STANDARD |           | OPTIONAL      |
|----------------------------------|----------|-----------|---------------|
|                                  | MANUAL   | AUTOMATIC |               |
| ENGINE                           |          |           |               |
| Engine                           |          | ●         | X             |
| Cooling Pack                     |          | ●         | X             |
| Tropical Radiator                |          | X         | ●             |
| Heavy Duty Air Filter            |          | X         | ●             |
| Electronic Governor              |          | ●         | X             |
| High Coolant Temperature Sender  |          | ●         | X             |
| Low Oil Pressure Sender          |          | ●         | X             |
| Low Coolant Level Sender         |          | ●         | X             |
| Radiator Guards                  |          | ●         | X             |
| Hot Component Guards             |          | ●         | X             |
| Manual Oil Drain Pump            |          | X         | ●             |
| Fuel Prefilter                   |          | X         | ●             |
| Water Jacket Heater              | X        | ●         | ● (Manual)    |
| Industrial Silencer - Open Set   |          | ●         | X             |
| Residential Silencer - Open Set  |          | X         | ●             |
| Residential Silencer - Canopy    |          | ●         | X             |
| Cold start aid                   |          | X         | ●             |
| Remote Radiator                  |          | X         | ●             |
| Trailer                          |          | X         | ●             |
| <b>ELECTRICS</b>                 |          |           |               |
| Alternator                       |          | ●         | X             |
| Circuit Breaker - 3 poles        |          | X         | ●             |
| Circuit Breaker - 4 poles        |          | X         | ●             |
| Battery Isolator                 |          | X         | ●             |
| Earth Fault Protection           |          | X         | ●             |
| Anti condensation Heater         |          | X         | ●             |
| Optional Voltages                |          | X         | ●             |
| Class F insulation               |          | X         | ●             |
| External Stop Button - Canopy    |          | ●         | X             |
| GSM SMS message sending on fault |          | X         | ●             |
| Battery Charger                  | X        | ●         | ● (Manual)    |
| ATS Panel - 3 Poles              | X        | ●         | X             |
| ATS Panel - 4 Poles              | X        | X         | ● (Automatic) |
| Synchronisation Panel            | X        | X         | ● (Automatic) |

● - Available X - Not Available

## REFERENCE STANDARDS

- IDEA Generating Sets are CE certified and conform to the following standards ;
- Power according to ISO 3046 and ISO 8528
  - EN 12100 , EN 13857 , EN 60204
  - 2006/42/CE Machinery Safety
  - 2006/95/EC Low Voltage
  - 2004/108/CE EMC
  - Ambient reference conditions 1000 mbar, 25 °C, 30 % relative humidity ISO8528

All the information in this leaflet is intended for general purposes only. IDEA reserves the right to change the

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