

**DIESEL GENERATOR 500 KVA****50 Hz, 230/400V**

## TECHNICAL SPECIFICATIONS



|                     |         | Standby            | Prime |
|---------------------|---------|--------------------|-------|
| Power               | kVa     | 500                | 454   |
| Power               | kW      | 400                | 363   |
| Rated speed         | rpm     | 1500               |       |
| Voltage             | V       | 400/230            |       |
| Power factor        | Cos Phi | 0,8                |       |
| Open Type (LxWxH)   | mm      | 1500 x 3255 x 1900 |       |
| Open Type(Weight)   | kg      | 3206               |       |
| Silent Type (LxWxH) | mm      | 1500 x 4300 x 2510 |       |
| Silent Type(Weight) | kg      | 3851               |       |

**Continuous Power**

Continuous working power under constant load. The average load value can be 100%. It cannot be overloaded.

**Standby Power**

Working power in limited time under variable load. With an average load of 70%, it can operate for a total of 200 hours a year. It is used as backup power in mains power outages. Cannot be overloaded.

**Prime Power**

Continuous working power under variable load. Average load value should be 70%. Every 12 hours 10% can be overloaded.

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| ENGINE              |                            |           |      |
|---------------------|----------------------------|-----------|------|
| Brand               | Volvo Penta                |           |      |
| Model               | TAD1345GE                  |           |      |
| Frequency           | Hz                         | 50        |      |
| Standby Power       | kW                         | 431       |      |
| Prime Power         | kW                         | 388       |      |
| Displacement        | lt                         | 12.78     |      |
| Rated Speed         | rpm                        | 1500      |      |
| Bore x Stroke       | mm x mm                    | 131 x 158 |      |
| Aspiration          | Turbocharged – Intercooler |           |      |
| Cooling Method      | Water Cooled               |           |      |
| Type                | Direct Injection           |           |      |
| Compression Ratio   | 18.1:1                     |           |      |
| Number of Cylinders | 6 In-Line                  |           |      |
| Governor Type       | Electronic                 |           |      |
| Oil Capacity        | lt                         | 36        |      |
| Coolant Capacity    | lt                         | 44        |      |
| Fuel Tank           | lt                         | 515       |      |
| Fuel Consumption    | %100                       | lt        | 90.5 |
|                     | %75                        | lt        | 68.2 |
|                     | %50                        | lt        | 46   |

| ALTERNATOR         |              |         |
|--------------------|--------------|---------|
| Power Factor       | 0.8          |         |
| Rated Power        | kW/kVa       | 400/500 |
| Frequency          | Hz           | 50      |
| Voltage            | V            | 400/230 |
| Connection         | 3P 4W / Y    |         |
| Protection Class   | IP21         |         |
| Insulation Class   | H            |         |
| Voltage Regulation | ±1.0%        |         |
| AVR                | AS440        |         |
| Excitation System  | Self Excited |         |

## STANDARD FEATURES

- |   |  |
|---|--|
| Water cooled diesel engine                                    | Steel chassis and anti-vibration wedges                    |
| Radiator and mechanical fan                                   | Electronic battery charger                                 |
| Protective cage that prevents touching rotating and hot parts | Operating and installation manual                          |
| Electric starter and charge alternator                        | Alternator with single bearing and H insulation class      |
| Battery, cables and stand                                     | Industrial capacity muffler and flexible steel compensator |
| Flexible fuel connection hoses                                | Engine water heater  |

SKATPOWER reserves the right to make changes in model, specification, color, equipment and accessories without prior notice. N/A: These dimensions and weights may change depending upon the characteristics of the project

SKATPOWER GENERATOR.

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## CONTROL SYSTEM

### DATAKOM D-300

The D-300 is a cost effective, modern technology genset controller ready for internet monitoring.

Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.

Software features are complete with easy firmware upgrade through USB port.

The Windows based PC software allows monitoring and programming through USB, RS-232 and GPRS.

The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.



| FUNCTIONS               | COMMUNICATION                  | FEATURES                            |   |
|-------------------------|--------------------------------|-------------------------------------|---|
| AMF unit                | 4-band GPRS modem (optional)   | Diesel and gas genset support       | Dual mutual standby with equal aging of gensets |
| ATS unit                | USB Device                     | 400Hz operation support             | Manual "speed fine adjust" on selected ECUs     |
| Remote start controller | RS-232 (2400-57600baud)        | 400 event logs, full snapshot       | Automatic fuel pump control                     |
| Manual start controller | J1939-CANBUS                   | All parameters front panel editable | Disable protections feature                     |
| Engine controller       | Geo-locating through GSM       | 3 level configuration password      | Excess power protection                         |
| Remote display panel    | Internet Central Monitoring    | 128x64 graphical LCD display        | Reverse power protection                        |
|                         | Free PC software: Rainbow Plus | Downloadable languages              | Overload IDMT protection                        |
|                         | Modbus RTU                     | Waveform display of V & I           | Load shedding, dummy load                       |
|                         | GPS support (RS-232)           | Harmonic analysis of V & I          | Multiple load management                        |
|                         |                                | 16Amp MCB & GCB outputs             | Current unbalance protection                    |
|                         |                                | 8 configurable digital inputs       | Voltage unbalance protection                    |
|                         |                                | 6 configurable digital outputs      | Fuel filling & fuel theft alarms                |
|                         |                                | 3 configurable analog inputs        | Battery back-up real time clock                 |
|                         |                                | Both CANBUS-J1939 & MPU             | Idle speed control                              |
|                         |                                | 3 configurable service alarms       | Battery charge run enabled                      |
|                         |                                | Multiple automatic exerciser        | Combat mode support                             |
|                         |                                | Weekly operation schedule           |   |